1996

The Uniform Soybean Tests: Northern Region 1996

J. R. Wilcox
USDA-ARS

THE UNIFORM SOYBEAN TESTS NORTHERN REGION

1996

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INTRODUCTION

The purpose of The Uniform Soybean Tests is to critically evaluate the best of the experimental soybean lines developed by federal and state research personnel in the U.S. and Canada, for their potential release as new varieties.

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains adapted to production in the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later maturing strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued by the USDA-ARS Soybean Production Research Unit, P.O. Box 196, Stoneville, MS 38776.

Data from the Uniform Soybean Tests are the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to evaluate the experimental strains for one year before they are entered in the Uniform Tests. Uniform Tests are grown at more locations with more replications that Preliminary Tests.

The Uniform Soybean Test Report is a progress report containing statements which may or may not be verified by subsequent experiments. Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

The USDA-Agricultural Research Service does not vouch for the authenticity of either the parentage of ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in The Uniform Test Report.

POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

1) Experimental lines entered in the Uniform Tests, including Preliminary Tests, must be free of restrictions on their potential release as varieties or their use as parents in biparental crosses or as parents in recurrent selection programs.

2) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research.

1) Seed of Uniform Test entries is for evaluation in the Uniform Tests only and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.

2) Entries in the Uniform Tests may be used by Uniform Test participants as parents only in biparental crosses or in developing recurrent selection populations

3) The originator of a Uniform Test entry must obtain prior approval before using any entry as a recurrent parent in backcrossing, in any breeding or genetic studies, or for any other research.

4) Experimental strains entered in the Uniform Tests should be labeled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.

Release of Uniform Test entries.

1) Entries in the Uniform Tests are released according to USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government policies.

2) Any state or province participating in the Uniform Tests is offered the opportunity to participate in the release of any Uniform Test entry proposed for release.

3) Entries may be released on a restricted basis or on a contractual basis only after Uniform Test Participants have been offered the opportunity to participate in the release of the entry.

4) Restricted or contractual releases cannot impose any restriction on the prior use of an entry as a parent by Uniform Test Participants.

STRAIN DESIGNATIONS

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experiment station agronomists with the U.S. Department of Agriculture.

A	Iowa A.E.S.
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, USDA
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC=R.L. Cooper, HF=R. Fioritto, HS=S.K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (LN=C.D. Nickell)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
S	Missouri A.E.S.
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
N	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnepeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.
X(Y)	Two or more states cooperatively, e.g. ND(M) North Dakota and Minnesota

METHODS

Uniform tests are planted in multiple-row plots with three or four replications, and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. Coefficients of variability are included with all replicated test data. Discretion is used in including data with high CVs in the regional means. If the CV is greater than 15, participants should include the reason, such as disease or environmental conditions. Lines may be heterogeneous for morphological traits the first year in the Uniform Tests but must be pure lines the second year of testing. It is the responsibility of the breeder to purify heterogeneous lines.

Generation Composited is the generation after the final single-plant selection, when seeds from plants or rows are composited.

Previous Testing is the number of previous years in the same Uniform Test or, in the case of new entries, a reference to the previous year's test, abbreviated to PT IIA for Preliminary Test IIA, for example.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre. To convert to kilograms/hectare multiply by 67.25.

Maturity is the date when 95% of the pods have ripened, as indicated by their mature pod color. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) of later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier(E) and one later (L) check variety are given in the maturity column for each test, or a maturity check from an earlier or later maturity group is included. Current reference and check varieties and the maturity group limits relative toe the reference varieties are:

Group	Reference	Range	Early check	Late check
00	McCall	-7 to +5		Agassiz
0	Lambert	-6 to +2	Agassiz (E)	Parker (L)
I	Parker	-4 to +4	Lambert (0)	Marcus 95 (L)
II	IA2021	-3 to +5	Marcus 95 (I)	IA2022 (L)
III	Iroquois	-4 to +4	IA2022 (II)	Macon (L)
IV	Stressland	-4 to +7	Macon (III)	KS4694 (L)

These maturity group ranges are based on long-term means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures. Additional check varieties may be included in specific tests such as Freeborn (SCN) for resistance to the soybean cyst nematode, or Charleston (dt1) as a determinate check.

Lodging is rated at maturity according to the following scores:

1 = Almost all plants erect
2 = All plants leaning slightly or a few plants down.
3 = All plants leaning moderately (45 degrees), or 25% to 50% of the plants down.
4 = All plants leaning considerably, or 50% to 80% of the plants down.
5 = Almost all plants down.

Height is the average length in inches of mature plants from the ground to the tip of the main stem. To convert to centimeters, multiply by 2.54.

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. Threshing or handling damage is not considered, nor is mottling or other pigment. Ratings for seed quality are:

1 - Very good 2 - Good 3 - Fair 4 - Poor 5 - Very poor

Seed Size (i.e. weight per seed) is recorded in grams per 100 seeds based on a 100- or 200-seed sample. To convert to seeds per pound, divide this into 45,359.2.

Seed Composition is measured on samples submitted to the USDA-ARS National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured on these samples using near infrared transmittance, and are reported on a moisture-free basis.

Descriptive Code: 1 2 3 4 5 6, abbreviated as underlined below.

1 = Flower color: Purple, White
2 = Pubescence color: Tawny, Gray, Light tawny
3 = Pod color: Brown, Tan
4 = Seed coat luster: Dull, Shiny, Intermediate
5 = Seed coat color = Yellow, Gray, Light gray, Green
6 = Hilum color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow; prefixes indicate Light or Dark shades, e.g. Lbf = light buff, Dib = dark imperfect black. H indicates heterogeneous for hilum color.
7 = Stem termination: Determinate, Indeterminate, Semi-Determinate

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

1 = No shattering
2 = 1% to 10% shattered
3 = 10% to 25% shattered
4 = 25% to 50% shattered
5 = Over 50% shatttered

Iron chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence score is related to hypocotyl elongation and is measured at Ames, Iowa by germination at 25 C (a critical temperature for differentiating strains). Four replications of 25 seeds/entry are planted in a 5-inch plastic pot at a 4.5 inch depth in sand. Seedlings that have emerged by 12 days after planting are counted and emergence score in relation to percent of seeds that germinate and emerge are as follows:

1 > 95%
2 = 91 to 95%
3 = 85 to 90%
4 = 76 to 84%
5 < 76%

DISEASE

Disease reactions are listed according to "Soybean Disease Survey Standards", March, 1960, unless otherwise specified. Disease reaction is scored from 1 (no disease) to 5 (very severe), or in some cases as percent infected or simply as + (present) or 0 (absent). Purple seed stain and seed mottling follow the disease severity class rating:

Disease severity class rating	1	2	3	4	5
Number of diseased seed in sample	0	1-3%	4-8%	9-19%	20-100%

An additional classification to describe the extent of seedcoat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week delayed ("d") harvest sample. The location where the test was made is identified in the column heading, and the letter "a" or "n" signifies artificial or natural infection. Clearcut and consistent reactions are given by letter instead of number: R = resistant, S = susceptible, I = intermediate, and H = heterogeneous. Natural infection ratings are from agronomic tests in some instances and from special disease plantings in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

Abbreviation	Disease	Pathogen
BB	Bacterial blight	Pseudomonas syringa pv. glycinea
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas campestris pv. phaseoli
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregata
BTS	Bacterial tan spot	Corynebacterium flaccumfaciens
CN	Cyst nematode	Heterodera glycines
CR	Charcoal rot	Macrophomina phaseolina
DM	Downy mildew	Peronospora manshurica
FE	Frogeye leafspot	Cercospora sojina
PM	Powdery mildew	Microsphaera diffusa
PR	Phytophthora rot	Phytophthora sojae
PS	Purple stain	Cercospora kikuchii
PSB	Pod & stem blight	Diaporthe phaseolorum var. sojae
Pyd	Pythium root rot	Pythium debaryanum
Pyu	Pythium root rot	Pythium ultimum
RK	Root knot nematode	Meloidogyne spp.
RP	Rhizoctonia root rot	Rhizoctonia solani
SB	Sclerotial blight	Sclerotium rolfsii
SC	Stem canker	Diaporthe phaseolorum var. caulivora
SDS	Sudden death syndrome	Fusarium solani
SMV	Soybean mosaic virus	Soja virus 1
TS	Target spot	Corynespora cassiicola
WF	Wildfire	Pseudomonas syringae var. tabaci
YMV	Yellow mosaic virus	Phaseolus virus 2

Rating for BB, BP, DM. FE, and PM are based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

Tolerance rating categories for Phytophthora rot are as follows:

1 = No root rot, very vigorous
2 = No root rot, better than average vigor
3 = No root rot, average vigor
4 = No root rot, slight stunting
5 = Up to 10% dead plants, slight stunting
6 = Up to 20% dead plants, moderate stunting
7 = Up to 50% dead plants, moderate to severe stunting
8 = More than 50% dead plants, severe stunting
9 = All plants died before flowering
10 = Plants did not emerge or died soon after emergence

The percent purple stain and Phomopsis seed infection is based on a 100-seed sample plated on potato-dextrose agar in petri dishes.

The percent green seed is based on a 100-seed sample and is the number of seed with a green or partially green seedcoat.

Abbreviations used in sudden death syndrome (SDS) ratings are as follows:

R6Date = Days from planting to R6.2 growth stage
R6DI = SDS Disease Incidence (% of plants with visible leaf symptoms)
R6DS = SDS Disease Severity (1=mild chlorosis, 5=severe leaf scorch, 9=premature death of the plant)
R6DX = SDS Disease index (R6DI x R6DS/9)

PROCEDURE FOR TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests Northern Region, has been agreed upon by public soybean breeders. The policy was developed eloped to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the USDA-Agricultural Research Service. The tests are divided into those in the Northern Region, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups IVS to VIII. Group IV maturity strains are divided into a IV N test for the northern region and a IV S test for the southern states. Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests. Strains developed by four or more backcrosses to a released cultivar may be entered without prior yield evaluations.

Strains are evaluated for one year in the Preliminary Tests (PT), which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given the opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations than Preliminary Tests and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly into the UT without prior evaluation in PT. Strains evaluated in Regional Cyst Nematode (SCN) tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is usually initiated by the institution that developed the strain.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may be the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

When a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains.

By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a State's Experiment Station policy. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultvar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained by Dr. Judith St. John, Associate Deputy Administrator for Plant Science, USDA, ARS, Bldg. 005, BARC-West, Beltsville, MD 20705, phone 301-504-6252. The office for clearance of proposed names of new soybean cultivars is : Mr. James P. Triplett, Chief, Seed Regulatory & Testing Branch, Livestock and Seed Division, AMS/USDA, Bldg. 506, BARC-East, Beltsville, MD 20705-2350, phone 301-504-9430. The date for simultaneous publicity release on new soybean cultivars by participating states is determined by the originating state, and is usually in August but may be delayed until the following April if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year if UT data are being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT, including private plant breeders, for testing and crossing if this distribution has not been made previously.

UNIFORM TEST STRAINS RELEASED IN 1996

Variety	Experimental designation	Uniform Test evaluations
Athow	C1875	PT IIIA 1993, UT III 1994-1995
Danatto	ND91-2330	UT 0 1995
Defiance	HS91-4523	PT IIIA 1993, UT III 1994-1995
Flint	HF91-078	PT IIB 1993, UT II 1994-1995
IA1006	A92-525014	PT I 1993, UT I 1994-1995
IA3005	A92-726034	SCN III 1993-1995, UT III 1995
LN89-3264*	LN89-3264	PT IIB 1994, UT II 1995
LN89-3615*	LN89-3615	PT IVA 1992, UT IV 1993-1994
Omaha	LN91-1733	PT IIIA 1994, UT IV 1995
Savoy	LN90-4187	PT IIB 1994, UT II 1995

* Non-exclusive release for brand labeling.

Variety	Release date	Releasing states	Foundation seed production
Athow	October, 1996	IL, IN	1996
Danatto	February, 1996	ND	1995
Defiance	August, 1996	OH	1996
Flint	August, 1996	OH	1996
IA1006	March 1996	IA, IL, MI, MN, SD	1996
IA3005	March, 1996	IA, IL, IN, MI, OH	1996
LN89-3264*	August, 1996	IL	1996
LN89-3615*	August, 1996	IL	1996
Omaha	August, 1996	IL, IN, KY	1996
Savoy	August, 1996	IL, IN	1996

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
A1	Anoka x Mack
A2	M63-17 x C1453
A4	L15 x AP68-1016
A6	Mutant with 28.1% stearic acid
A-7	Hardome x PI 189.950
A8	A4 x Century
A13	Selection from AP9 Fe (S1) C7
A17	BSR 101 x CN210
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A73-21030	L65-1342 x IVR 4311
A74-204034	M62-263 x Amsoy 71
A75-204018	IVR Ex4731 x Wirth
A76-202015	AP6
A76-304005	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-314013	A73-21030 x Williams
A78-121014	Pride B216 x Hodgson
A78-123018	Pride B216 x Hodgson
A79-134008	AP6(1YT)(F4)(C2)
A79-135010	Pride B216 x Cumberland
A79-136012	Pride B216 x Land O' Lakes 4102
A80-145015	(Corsoy x Wayne) x Peterson 118-11
A80-147002	Northrup King S1492 x Pella
A80-244003	Northrup King S1492 x Pella
A80-244036	A74-204034 x Cumberland
A80-344003	= A8
A80-346029	A75-204018 x BSR 301
A81-356022	Century x A76-304020
A82-161034	A77-314013 x Pride B216
A82-267015	AP6TW(2YT)(F4)C2
A83-271027	Northrup King S1492 x Asgrow A3127
A85-144015	Sel. from AP9 F3(S1) 67
A85-293032	A8 x Elgin
A86-104011	A80-244036 x A80-344003
A86-203004	Hack x Zane
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
A86-304020	(Beeson x AP68-1016) x (L15 x Calland)
A87-296011	Harper x A80-346029
A88-121019	A82-267015 x Sherman
A89-144026	Jacques J231 x A8
A89-144036	A82-161034 x BSR 101
A90-111005	Chamberlain x Conrad
A90-311023	Conrad x L80-4187
AC89-145021	BSR 101(2) x A85-144015
AgriPro 26	Beeson x Calland
AgriPro AP1989	AgriPro 26 x Vickery
AgriPro AP2535	Unknown
Agserv 8780	Unknown
AP6	Crop Science 15:739
AP9	Crop Science 20:677

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
AP68-1016	Clark(5) x PI 84.946-2
Asgrow A1564	Hark x C1453
Asgrow A1895	Asgrow A2575 x L73-827
Asgrow A2543	Asgrow A3127 x (Century 84(2) x A79-
Asgrow A2575	C1453 x Amsoy 71
Asgrow A2656	M60-406 x W35-184
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127
Asgrow A3415	Fayette x (Corsoy x PI 88.788)
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A3935	M0474C x Asgrow A3127
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4268	Asgrow A1564 x Asgrow A3127
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A5474	J74-122 x (Tracy x D71-6234)
AX56P64-1	Adams x Harosoy
BPR317	Unknown
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1453	C1266R x C1253
C1622	Harcor x L69U37-17-5
C1623	Harcor x L69U37-17-5
C1627	Century x Hodgson
C1655	Hobbit x Century
C1742	A80-344003 x Century 84
C1747	A80-244003 x Williams 82
C1756	C1622 x Harper
C1763	C1627 x CX782-257-3-1
C1813	C1655 x Pella 86
CM304	Unknown
CM497	
CRS3-998-24-1	Selection from recurrent selection
CRS7C1	Selection from recurrent selection
CX415	Unknown
CX782-257-3-1	Fiskeby V x Essex
CX1328-22-3	PI 361.088B x A86-301024
CX1334-323	A6 x C1725
D49-2491	S100 x CNS
D61-2424	D49-2491(4) x PI 163.453
D61-3505	D49-2491(4) x PI 163.453
D66-7398	D61-3505 x (PI 96.035 x D61-2624)
D68-18	Dyer x Bragg
D71-6234	D66-7398 x PI 95.960
D77-5169	Centennial x J74-47
Dairyland DSR 252	Unknown
Dairyland DSR 304	Williams x Unknown
D0-9-2-1-2	[(A-7 x Altona) x P71-39] x [(A-7 x M62-
E84108	Sprite x Hardin

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
E84165	Sprite x L73-4673
E86067	A80-145015 x A79-135010
E87223	HW8123 x LN80-10805
E90009	Hodgson 78 x Fengshou 12
Elf BC	Elf(6) x Williams 82
FH22-815	Manitoba Brown x Mandarin (Ottawa)
GR8936	Asgrow A3127(4) x Williams 82
HC74-634RE	Williams x Ransom
HC76-3840	L72U-2567 x Hodgson
HC76-3840BC	HC76-3840(6) x Williams 82
HC78-279	L72U-2567 x Essex
HC78-350	L72U-2567 x Essex
HC78-350BC	HC78-350(6) x Williams 82
HC78-352	L72U-2567 x Essex
HC78-352BC	HC78-352(6) x Williams 82
HC78-676	L70T-543G x L74D-619
HC78-676BC	HC78-676(6) x Williams 82
HC80-1756	L73U-632 x Elf
HC80-1944	L73U-632 x Elf
HC80-1946	L72U-2567 x Elf
HC82-368	Essex x Elf
HC83-4532	L74D-634 x Hobbit
HC84-553-1	Hobbit x K74-104-76-205
HC84-913	Simpson x Sprite
HC84-2556	HW74-3400 x L76-0022
HC84-4851	Sprite 87 x Williams 82
HC85-164	HC78-676 x Sprite
HC85-5167	Amcor x Williams 82
HC85-5273	Asgrow A3127 x Forrest
HC89-913	HC80-1944 x HC78-676BC
HM8632	Zane(3) x HW79149
HM8580	Unknown
HM8734	A78-123018(2) x Century 84
HM8847	A80-244036 x [Asgrow A3127(4) x Williams
HM87107	Asgrow A3127BC3F2 x Unknown
Holmberg 840-2-7	PI 438.475
HP5316-8-2	
HS84-6224	HW79015(2) x HW79149
HS88-4909	Conrad x Hayes
HW74-3400	Williams x Ransom
HW7847	Evans x Williams
HW79015	A72-512 x Oakland
HW79022	Woodworth x L60-347-1-60-2B
HW79116	Cumberland x Pella
HW79149	[A72-507(6) x A1] x [A72-507(5) x PI
HW8123	A76-202015 x A76-304005
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
IVR 4311	Hack x Wayne
IVR Ex4731	Amsoy x Wayne
J74-47	Forrest(2) x (D68-18 x PI 88.788)
J74-122	Forrest(2) x (D68-18 x PI 88.788)
Ja53-7-6	Selection from Japanese variety
Jacques J231	(Hodgson x Calland) x Corsoy
Jewel	Corsoy x Wells

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
K74-104-76-205	Tracy x Williams
K74-114-75-000	Tracy x Bonus
K89-67	Hamilton x HP5316-8-2
K1062	Tracy x Williams
K1126	HW7847 x Forrest
K1145	Essex x Cumberland
K1148	Essex x Cumberland
K1161	Harper x Asgrow A3127
K1163	HW79149 x Asgrow A3127
K1180	Sherman x C1623
L15	Wayne(6) x Clark 63
L57-0034	Clark x Adams
L60-347-1-60-2B	Harosoy x Higan
L62-1251	Clark(6) x T117
L62-1926	Clark(6) x PI 86.024, e2
L65-1342	Wayne(2) x L62-1926
L66-0022	Williams(4) x PI 171.451
L66L-140	Wayne x L57-0034
L66L-154	Wayne x L57-0034
L67-592	Clark(6) x Higan,S
L68-0376	Clark(2) x PI 84.946-2
L68-4106	[L15(5) x L11, r] x [Wayne(10) x Kanrich,
L69U37-17-5	Calland x Corsoy
L70-2283	Custer x Chippewa 64
L70T-543G	L15 x Amsoy 71
L72U-2567	Williams x Ransom
L73-827	L6 x (L67-592 x L62-1251)
L73-4673	Corsoy x L66L-154
L73U-632	Miller 67 x L66L-140
L74D-619	Williams x Ransom
L74D-634	Williams x Ransom
L75-8020	Williams x L70-2283
L76-0328	Williams x PI 229.358
L77-443	Union x L75-8020
L77-906	Williams x PI 209.332
L77-994	Williams(2) x PI 88.788
L78-4245	L68-4106 x L68-0376
L80-4187	Williams(2) x PI 88.788
L82C-1212	Williams 82 x Fayette
L84-6189	Williams 82 x L78-4245
L86K-114	Williams 82 x L76-0328
LG82-8195	PI 68.658 x Lawrence
LG82-8224	PI 68.658 x Lawrence
LG82-8379	PI 68.508 x FC 04.007B
Land O'Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
LN80-7532	Century x A76-304020
LN80-9447	Weber x A76-202015
LN80-9452	Weber x A76-202015
LN80-10805	Asgrow A2656 x Schechinger S48
LN81-1029	K74-114-75-000 x Pella
LN84-7577	Hack x Elgin
LN84-15336	LN90-9447 x Asgrow A3127
LN84-18266	LN80-9452 x Asgrow A3127
LN85-6800	LNX8132 x LN80-7532

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
LN86-983	Hack x BSR 101
LN86-4668	Fayette x Hardin
LNX8132	Hack x A78-121014
LS85-5031	Mack x Crawford
M10	Lincoln(2) x Richland
M53-117	M10 x PI 180.501
M54-139	Renville x Capital
M54-240	[Lincoln(2) x Richland] x Korean
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-224	Merit x Harosoy
M62-93	Merit x M406
M62-173	M387 x M406
M62-263	Grant x M319W
M63-17	M402 x M406
M63-158	PI 261.475 x Pridesoy II
M63-217Y	Corsoy x M53-117
M64-3	Traverse x PI 196.163
M65-442	Anoka x Amsoy
M67-141	Corsoy x Wayne
M68-49	Evans x M59-120
M68-49-26	Evans x M59-120
M68-176	Merit x Beeson
M69-42	M63-158 x Provar
M70-127	Evans x M63-217Y
M70-271	Merit x M64-3
M70-294	Ja53-7-6 x M63-217Y
M70-330	M62-93 x M64-3
M70-440	Steele x (Evans x Lee)
M71-148	Clay x Evans
M72-3	Evans x Hodgson
M73-37	Evans x XK505
M73-62	M61-224 x PI 297.518
M73-129	M68-49 x Hodgson
M74-23	M68-49 x Hodgson
M74-337	Evans x Pride B216
M74-394	Hodgson x Wells
M74-399	Hodgson x Wells
M74-498	Peterson PX20 x [Hodgson(4) Rps1 x Merit]
M75-2	Hodgson(4) x [M67-141 x (Chippewa x Higan,
M75-274	Evans x L70T-543
M76-148	M70-271 x Hodgson 78
M76-151	M70-127 x Hodgson 78
M77-120	M70-440 x M69-42
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-213	Hodgson 78 x Century
M81-381	M70-127 x Century
M81-387	M68-49-26 x Asgrow A2656
M82-303	M70-330 x M68-176
M82-559	Vickery x Century
M82-996	M72-3 x Peterson 1677
M83-16	A2 x Hodgson

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
M83-442	M71-148 x Pioneer 0877
M83-727	M73-62 x Simpson
M83-744	M73-129 x M73-37
M83-766	Evans x M74-394
M83-830	Evans x Century
M84-93	M71-148 x Ozzie
M84-492	A79-136012 x M75-2
M84-855	M76-148 x Glenwood
M84-916	A79-136012 x Dawson
M84-1023	M71-148 x M76-151
M84-1034	M75-2 x K1062
M85-52	M73-62 x Simpson
M85-173	M77-120 x Simpson
M85-396	M73-62 x M74-399
M85-564	M74-337 x M74-23
M85-582	McCall x Corsoy 79
M85-647	Ozzie x Fayette
M85-933	Fayette x McCall
M86-421	M74-23 x Gnome
M86-830	M81-387 x M81-213
M87-926	Chico x PI 437.296
M319W	Lincoln x Hawkeye
M387	Renville x Capital
M402	Renville x Capital
M406	Harosoy x Norchief
Md83-5198	Bedford x Miles
Md87-5602	Pershing x D77-5169
M0385	IVR 1120 x Calland
M0474C	White-flowered off-type in Mitchell
MSBP1	Male-steile (ms2) intermated population
Northrup King S18-84	Northrup King S1492(4) x Tracy
Northrup King S19-90	Pride B152 x Pella
Northrup King S20-20	Pride B152 x CM497
Northrup King S23-12	Northrup King S1346 x Asgrow A2575
Northrup King S26-06	Northrup King S18-84 x Matsoy
Northrup King S29-39	Pride B152 x 9240R
Northrup King S31-33	[Bedford(2) x Asgrow A1564] x [Mack x L77-
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1492	Corsoy x Wayne
Northrup King S1474	Hark x Wayne
ORC8703	Hodgson x FH22-815
ORC8802	Hack x Asgrow A1895
ORC8805	A80-147002 x Pride B152
ORC8905	Pride B152 x Jewel
OT86-1	Coles x DO-9-2-1-2
OT87-12	McCall x Maple Amber(2)
OX8459-3-9	Century 84 x Asgrow A3127
P71-39	Acme x Blackhawk
P596-13	
P6906-22	
P6917-29	
Peterson 118-11	Corsoy x (Hawkeye x Chippewa)
Peterson 1677	Rampage x Corsoy(2)
Peterson PX20	50% P61-22 + 50% Wells

IDENTIFICATION OF PARENT STRAINS 1996

Strain	Parentage
Pioneer 0877	[Clark x Chippewa 64] x Corsoy
Pioneer 1677	Rampage x Corsoy(2)
Pioneer Brand 2981	
Pioneer P1999-19	Unknown
Pioneer P3010-02	(PI 200.593 x Williams) x Asgrow A3127
Pioneer P9061	Wells x Pioneer 1677
Pioneer P9241	
Pioneer P9272	Pioneer P9292 x Asgrow A3127
Pioneer P9292	(Corsoy x Magna) x Williams
Pioneer P9273	Pioneer Brand 2981 x Asgrow A3127
Pioneer P9301	
Pioneer P9303	Pioneer Brand 2981 x M0385
Pioneer P9341	CM304 x Asgrow A3127
Pioneer P9381	
Pioneer P9391	Asgrow A3127 x Willliams 79
Pioneer P9401	Williams x Cutler 71
Pioneer P9402	
Pioneer P9411	(Williams x Asgrow A3127) x Asgrow A3127
Pioneer P9441	Williams x Essex
Pioneer P9442	Pioneer P9441 x Asgrow A3127
Pioneer P9461	(351-29 x Asgrow A4268) x (Pioneer P9401 x
Pixie BC	Pixie(6) x Williams 82
Pride B152	Northrup King S1346(6) x Mack
Pridesoy II	unknown
PRX26	PI 54.615-1 x PI 86.050
PRX307	Williams 82 x PRX26-23
PRX334-219	Williams 82 x (Century x PRX307)
R75-579	Forrest x Mack
R85-3280	Narow x R75-579
S85-1156-2	L77-443 x L77-906
S85-1163	L77-443 x L77-906
Schechinger S48	IVR 1120 x SL12
Sigco KG20	McCall x 2S11
SL12	[(Wayne(6) x Clark 63) x (Wayne(4) x L11)]
Uphoff 3100	Unknown
UX93-2	PI 423.949 x PI 407.788A
V68-1034	York x PI 71.506
W05-3386	
W35-184	W05-3386 x Clark
XK 505	Off-type found in Calland
059-903	Fiskeby III selection
2S11	059-903 x Hardome

SENCOR TOLERANCE

Evaluations for reaction to Sencor were determined by JoAnn R. Tinney, Agricultural Division of the Bayer Company. Tolerance to Sencor (metribuzin) was determined in a single hydroponic test. Additional field and greenhouse tests are recommended to accurately determine tolerance of these strains to metribuzin. Strains are placed in one of three groups: 1) Above Normal Tolerance, soybean plants showing the greatest tolerance to Sencor, 2) Normal Tolerance, soybean plants showing good tolerance to Sencor, and 3) Sensitive, soybean plants showing the least tolerance to Sencor and for which the use of Sencor is not recommended. Strains listed towards the top in the left column of the normal category expressed higher levels of than those listed towards the bottom in the right column.

SENCOR TOLERANCE TABLE

ABOVE NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	SENSITIVE
E93001	U94-2529	M91-1644	ND91-2721	SD(M)92-1233	M91-1590
M92-1174	A94-774021	A93-553024	M92-1019	HC89-2232	
HS93-3990	U94-3412	ND92-635	DS93-863	HF93-194	
HS93-3769	PARKER	IA2022	M92-405	ND(M)90-370	
HS92-2684	SD93-522	U94-2236	ND(M)90-705	M92-1605	
M92-1730	M92-1708	SD(ND)93-5721	M92-592	HF93-083	
C1926	ND(M)92-795	CHARLESTON	M92-597	E93147	
U93-2412	LS92-4173	HF93-155	M91-856	M92-623	
A93-553034	M92-647	FREEBORN	ND91-2735	HC89-2436	
A93-552028	SD93-492	ND92-720	ND(M)90-754	HF93-038	
IA2021	ND(M)91-895	M92-674	M91-1416	ORC 9404	
M92-1645	M92-542	HC90-3067	A94-572028	HF93-035	
SS95-1000	U94-2306	M92-590	A94-774016	IA2022	
SD93-1298	M91-1137	M92-407	ND(M)91-564	STRESSLAND	
LN91-1695	ND90-2624	M91-1812	M91-278	M91-2006	
S92-2712	U94-3518	AGASSIZ	SD(M)93-986	HC88-15	
Md92-5850	SD(ND)93-5810	C1912	M90-1279	ND(M)91-455	
LS92-3660	SD(ND)93-6072	LAMBERT	McCALL	M91-947	
SS92-7540	A94-774063	ND(M)90-754	C1917	SD(M)91-1763	
HC91-1770	SS991-7138	ND(M)90-722	RIPLEY	A94-674017	
KS4694	DELSOY 4210	ND(M)90-370	GLACIER	ND(M)91-468	
HC90-196	M91-821	M92-825	M92-671	E93424	
LN91-1733	SD(M)92-1272	ND90-2624	E93433	M91-1185	
C1925	M92-540	M91-1876	HF93-082	MAPLE RIDGE	
LN92-8605	U94-2629	SD(M)93-905	HC91-3672	M92-988	
MARCUS 95	SD93-1040	A94-672031	M89-936	SD(M)93-60	
HS93-4118	M92-400	IROQUOIS	E91031	M91-1087	
U94-2429	A92-525014	M89-1665	ND92-1111	M91-1195	
A92-726034	M92-761	ND(M)89-111	M92-547	SD(M)92-1357	
A94-774018					
HS93-3762					
HS93-3775					
MACON					
SS90-745					
SS92-7557					

1996 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	UT	PT
IA	Humboldt	W. Fehr	Emergence Score	00-IV	
	Humboldt	W. Fehr	Iron Chlorosis	00-III	I-III
	Ames	M. Uphoff	BSR Resistance	I-III	I-III
IL	Ridgway	M. Schmidt & R. Suttner	SDS	III-IV	
IN	Lafayette	T. Abney	PS	I-IV	I-IV
	Lafayette	T. Abney	PS&B	I-IV	I-IV
	Lafayette	T. Abney	Hard Seed	I-IV	I-IV
	Vincennes	T. Abney	PS&B	II-IV	II-III
	Lafayette	J. Wilcox	PR7	00-IV	I-IV
KS	Manhattan	W. Schapaugh, Jr.	Shattering Score	00-IV	I-IV
MN	Lamberton	J. Orf	Iron Chlorosis	00-IV	I

UNIFORM AND PRELIMINARY TEST LOCATIONS 1996

	Location	Tests Conducted By:	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
DE	Georgetown	B. Uniatowski					X	X				
IA	Ames	W. Fehr				X*				X*		
	Fairfield	W. Fehr					X				X*	
	Grand Junction	W. Fehr				X						
	Greene	W. Fehr			X							
	Griswold	W. Fehr					X					
	Hubbard	W. Fehr				X				X		
	Kanawha	W. Fehr			X*				X*			
	Keystone	W. Fehr										
	Pocahontas	W. Fehr			X				X			
	Stuart	W. Fehr					X				X	
IL	Belleville	M. Schmidt						X				X
	Cora	M. Schmidt						X				
	Dekalb	C. Nickell				X						
	Dewight	C. Nickell				X						
	Newton	C. Nickell					X	X				
	Ridgway	C. Nickell					X	X				
	Urbana	C. Nickell				X*	X*	X*		X*	X*	X*
IN	Bluffton	J. Wilcox				X	X					
	Butlerville	J. Wilcox					X*	X				X*
	Lafayette	J. Wilcox			X	X*	X*	X*		X*	X*	
KS	Manhattan	W. Schapaugh Jr.					X	X*			X	X*
	Ottawa	W. Schapaugh Jr.						X				
	Powhattan	W. Schapaugh Jr.					X					
KY	Lexington	T. Pfeiffer					X	X*				X*
MD	Queenstown	W. Kenworhty & P. Creegan					X	X				X*
MI	Ingham Co.	B. Diers			X*	X			X*	X*		
	Lanawee Co.	B. Diers				X						
	Saginaw Co.	B. Diers			X							
MN	Crookston	J. Orf	X*									
	Lamberton	J. Orf			X*	X*			X			
	Moorhead	J. Orf	X									
	Morris	J. Orf		X*								
	Rosemount	J. Orf		X*								
	Shelly	J. Orf	X*									
	Waseca	J. Orf			X	X			X*			

UNIFORM AND PRELIMINARY TEST LOCATIONS 1996

	Location	Tests Conducted By	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
MO	Columbia	D. Sleper					X	X			X	X
	Portageville	S. Anand						X				
NE	Falls City	G. Graef						X				
	Hartington	& L. Korte			X	X						
	Ord				X	X				X		
	Tekamah	G. Graef					X				X	
	York	& L. Korte				X	X*			X	X*	
NJ	Adelphia	R. Ilnicki				X	X	X		X		
ND	Casselton	T. Helms		X*								
OH	Hoytville	R. Fioritto				X	X*			X*	X	
	Mt. Orab	S. St. Martin					X	X*				X*
	So. Charleston	R. Cooper					X	X			X	X
	Wooster	R. Fioritto				X	X					
ONT	Dutton	G. Ablett			X							
	Elora	P. Gostovic	X*									
	London	P. Gostovic			X*							
	Ottawa	H. Voldeng	X	X								
	Ridgetown	G. Ablett				X				X		
	Woodslee	V. Poysa				X*						
	Woodstock	P. Gostovic		X*								
QUE	L'Acadie	G. Trembley		X								
SD	Beresford	R. Scott				X						
	Brookings	R. Scott		X	X*	X			X*			
	Elk Point	R. Scott										
	Watertown	R. Scott		X*	X							
X Location With Agronomic Data			5	8	14	22	22	18	6	10	10	9
X* Location With Seed Composition Data			3	5	5	5	5	5	4	5	4	5

UNIFORM TEST 00, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	Agassiz (0)	Simpson x M71-148	8	F5	Rps1
2.	Glacier	McCall x Altona	-	F4	Rps6
3.	Maple Ridge	Fiskeby III x Evans	16	F5	
4.	McCall (00)	(Acme x Chipewa) x Hark	22	F5	
5.	M91-278	OT86-1 x McCall	1	F5	Rps1
6.	M91-1876	Evans x Ozzie	-	F5	Rps1
7.	M92-405	Agassiz x Ozzie	-	F4	Rps1
8.	M92-761	Maple Belle x M85-582	-	F5	Rps1
9.	ND90-2624	M82-996 x Sigco KG20	1	F4	
10.	ND91-2721	Sigco KG20 x M81-18	1	F5	
11.	ND91-2735	Sigco KG20 x M81-18	1	F5	
12.	ND(M)90-370	M81-27 x M83-16	2	F5	
13.	ND(M)90-705	M83-442 x McCall	2	F5	
14.	ND(M)90-754	M83-442 x M81-18	UT 0	F5	

* Number of years in test or name of 1995 test.

UNIFORM TEST 00, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Emerg. Score	Shattering Score	PR Laf. Race 7
		Humboldt	Lamberton	Humboldt	Manhattan	
Agassiz (0)	PGBDYBfI	2.6	3.3	1	2	S
Glacier	PTBDYYI	2.9	3.3	2	2	S
Maple Ridge	PTBSYYI	2.2	3.3	1	2	S
McCall (00)	PGBDYYI	2.9	3.7	1	1	S
M91-278	PGBDYYI	2.5	3.0	1	2	H
M91-1876	P+WGBDYYI	2.9	4.0	1	3	S
M92-405	PGBDYBfI	2.6	3.0	2	1	S
M92-761	WGBDYYI	3.0	4.7	1	2	S
ND90-2624	PTBDYYI	2.0	3.3	2	2	S
ND91-2721	PGBDYYI	2.4	3.0	1	2	S
ND91-2735	PGBDYYI	2.1	4.3	3	2	S
ND(M)90-370	PGBDYYI	2.2	2.7	3	1	R
ND(M)90-705	WGTDYYI	2.2	3.3	1	2	R
ND(M)90-754	PGBSYYI	2.8	4.0	1	2	R

UNIFORM TEST 00, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 5 Date	Lodging 5 Score	Plant Height 5 In	Seed Quality 5 Score	Seed Size 5 g/100	Composition Protein 3 %	 Oil 3 %
Agassiz (0)	39.8	6	7.8	1.1	31	1.6	14.3	43.1	20.7
Glacier	38.6	10	5.4	2.0	29	2.1	17.0	43.1	20.0
Maple Ridge	37.0	11	-4.6	1.0	25	2.2	16.5	43.7	20.0
McCall (00)	38.8	8	09/12	1.4	29	2.0	15.6	42.6	20.0
M91-278	36.5	12	2.6	2.1	31	2.3	16.4	42.7	20.0
M91-1876	33.8	14	4.6	1.7	30	2.3	16.4	46.0	19.1
M92-405	41.4	5	3.4	1.0	30	1.6	16.3	42.9	21.0
M92-761	36.1	13	7.4	1.6	31	2.0	17.4	43.0	21.4
ND90-2624	43.5	4	9.0	1.6	31	2.0	18.0	44.3	19.6
ND91-2721	47.1	1	1.2	1.6	30	1.8	18.2	42.3	20.1
ND91-2735	45.2	2	-0.6	1.5	29	1.9	16.8	43.0	20.2
ND(M)90-370	39.7	7	7.8	1.2	32	1.8	16.3	42.1	21.0
ND(M)90-705	38.8	8	5.8	1.4	28	2.2	17.0	42.9	20.3
ND(M)90-754	44.1	3	11.0	1.4	31	1.7	17.2	43.8	20.5

104.8 Days After Planting

UNIFORM TEST 00, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 8 %	 Oil 8 %
Agassiz	42.3	5	6.9	1.2	31	7.9	14.6	42.5	20.6
Maple Ridge	37.3	9	-4.4	1.1	26	2.3	16.1	42.6	20.0
McCall	39.1	8	9/9.5	1.3	29	2.2	15.5	41.7	20.1
M91-278	41.1	7	3.2	1.9	32	2.2	16.3	42.3	19.9
ND90-2624	46.3	2	7.2	1.4	31	1.9	17.8	43.4	19.8
ND91-2721	46.8	1	1.4	1.5	30	1.9	18.0	41.5	20.0
ND91-2735	45.3	3	-0.1	1.4	29	1.9	16.6	42.1	20.2
ND(M)90-370	43.4	4	6.7	1.2	32	1.8	16.0	41.2	20.8
ND(M)90-705	41.7	6	4.4	1.2	29	2.1	17.0	42.3	20.1

105.2 Days After Planting

1994-1996 3-YEAR MEAN

No. of Tests Strain	16	16	17	17	17	15	15	11	11
Agassiz	42.7	2	3.1	1.1	32	1.9	14.6	42.6	20.2
Maple Ridge	36.7	5	-5.8	1.1	28	2.1	16.1	42.6	19.7
McCall	39.6	4	9/11.0	1.5	31	2.1	15.5	41.7	20.1
ND(M)90-370	44.5	1	6.5	1.2	35	1.7	15.8	41.2	20.4
ND(M)90-705	42.6	3	3.5	1.3	31	1.9	16.6	42.3	19.8

109.8 Days After Planting

UNIFORM TEST 00, 1996

YIELD (bu/a)

Strain	Mean 5 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Elora Ont.	Ottawa Ont.
Agassiz (0)	39.8	42.3	32.3	50.1	34.8	39.6
Glacier	38.6	38.1	32.6	41.8	33.5	46.8
Maple Ridge	37.0	38.0	36.4	44.5	26.8	39.3
McCall (00)	38.8	38.6	31.1	52.2	30.9	41.3
M91-278	36.5	37.5	28.8	42.4	33.4	40.4
M91-1876	33.8	33.7	25.8	41.6	30.7	37.1
M92-405	41.4	42.1	34.9	46.1	33.1	51.0
M92-761	36.1	35.4	27.1	38.5	35.0	44.7
ND90-2624	43.5	46.2	33.5	44.9	42.2	50.5
ND91-2721	47.1	43.6	37.7	58.9	42.6	52.5
ND91-2735	45.2	38.7	45.9	52.5	37.1	52.0
ND(M)90-370	39.7	40.7	33.2	46.6	37.2	41.0
ND(M)90-705	38.8	39.0	24.4	39.9	41.2	49.5
ND(M)90-754	44.1	44.7	35.6	51.4	39.8	48.9
C.V. (%)		8.8	14.3	9.7	10.5	9.3
L.S.D. (5%)		5.9	7.9	7.5	5.3	6.0
Row Sp. (in.)		12	10	10	15	16
Rows/Plot		6	6	6	4	4
Reps		4	3	3	4	4

UNIFORM TEST 00, 1996

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	Shelly MN	Elora Ont.	Ottawa Ont.
Agassiz (0)	6	4	9	5	8	12
Glacier	10	10	8	11	9	7
Maple Ridge	11	11	3	9	14	13
McCall (00)	8	9	10	3	12	9
M91-278	12	12	11	10	10	11
M91-1876	14	14	13	12	13	14
M92-405	5	5	5	7	11	3
M92-761	13	13	12	14	7	8
ND90-2624	4	1	6	8	2	4
ND91-2721	1	3	2	1	1	1
ND91-2735	2	6	1	2	6	2
ND(M)90-370	7	6	7	6	5	10
ND(M)90-705	8	7	14	13	3	5
ND(M)90-754	3	2	4	4	4	6

MATURITY (date)

Strain	Mean 5 Tests					
Agassiz (0)	7.8	7	12	5	6	9
Glacier	5.4	8	6	3	5	5
Maple Ridge	-4.6	-9	-4	-1	-5	-4
McCall (00)	09/12	09/22	09/08	09/19	09/08	09/06
M91-278	2.6	0	6	4	1	2
M91-1876	4.6	14	7	-2	0	4
M92-405	3.4	-1	10	-1	1	8
M92-761	7.4	11	9	3	8	6
ND90-2624	9.0	6	9	7	11	12
ND91-2721	1.2	-5	4	1	5	1
ND91-2735	-0.6	-6	3	-4	2	2
ND(M)90-370	7.8	0	14	6	9	10
ND(M)90-705	5.8	6	6	2	10	5
ND(M)90-754	11.0	9	13	10	14	9
Date Planted	05/30	06/04	06/05	06/05	05/24	05/23
Days to Mature	104.8	110	95	106	107	106

UNIFORM TEST 00, 1996

LODGING (score)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Shelly MN	Elora Ont.	Ottawa Ont.
Agassiz (0)	1.1	1.0	1.0	1.3	1.0	1.3
Glacier	2.0	2.3	2.0	2.7	1.0	2.2
Maple Ridge	1.0	1.0	1.0	1.0	1.0	1.0
McCall (00)	1.4	1.7	1.0	1.7	1.0	1.8
M91-278	2.1	2.0	1.7	2.7	1.0	3.0
M91-1876	1.7	1.3	1.7	2.0	1.0	2.4
M92-405	1.0	1.0	1.0	1.0	1.0	1.1
M92-761	1.6	1.7	1.3	2.3	1.0	1.9
ND90-2624	1.6	1.3	2.0	2.3	1.0	1.4
ND91-2721	1.6	1.0	1.7	3.0	1.0	1.4
ND91-2735	1.5	1.3	2.0	1.7	1.0	1.6
ND(M)90-370	1.2	1.3	1.3	1.3	1.0	1.3
ND(M)90-705	1.4	1.0	1.7	2.0	1.0	1.2
ND(M)90-754	1.4	1.3	1.3	1.7	1.0	1.9

PLANT HEIGHT (inches)

Strain	Mean 5 Tests					
Agassiz (0)	31	33	31	34	22	35
Glacier	29	30	26	31	22	34
Maple Ridge	25	27	21	33	18	28
McCall (00)	29	29	25	35	22	34
M91-278	31	29	27	39	24	38
M91-1876	30	30	27	36	24	35
M92-405	30	34	24	34	22	36
M92-761	31	33	26	33	24	37
ND90-2624	31	33	28	37	23	34
ND91-2721	30	32	28	34	22	32
ND91-2735	29	30	28	34	22	31
ND(M)90-370	32	34	33	36	23	34
ND(M)90-705	28	31	23	34	22	32
ND(M)90-754	31	34	31	34	23	35

UNIFORM TEST 00, 1996

SEED QUALITY (score)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Shelly MN	Elora Ont.	Ottawa Ont.
Agassiz (0)	1.6	1.7	1.7	1.3	2.0	1.5
Glacier	2.1	2.0	3.0	1.3	2.0	2.4
Maple Ridge	2.2	2.3	3.3	1.7	2.0	1.5
McCall (00)	2.0	2.0	2.3	2.0	1.5	2.0
M91-278	2.3	2.3	3.0	1.7	1.5	3.1
M91-1876	2.3	3.0	2.7	1.7	2.0	1.9
M92-405	1.6	1.7	1.7	1.0	2.0	1.6
M92-761	2.0	1.3	2.3	2.0	2.0	2.6
ND90-2624	2.0	1.3	3.0	1.3	2.5	2.1
ND91-2721	1.8	1.7	1.7	2.0	2.5	1.3
ND91-2735	1.9	2.0	1.7	1.3	2.5	1.9
ND(M)90-370	1.8	1.3	1.3	1.7	2.5	2.2
ND(M)90-705	2.2	2.3	2.3	1.7	2.5	2.4
ND(M)90-754	1.7	1.0	1.7	1.3	2.5	2.0

SEED SIZE (g/100)

Strain	Mean 5 Tests					
Agassiz (0)	14.3	15.6	14.0	14.4	13.6	14.1
Glacier	17.0	18.8	17.1	15.5	15.4	18.3
Maple Ridge	16.5	18.2	16.6	16.5	14.9	16.4
McCall (00)	15.6	17.9	15.7	15.5	13.1	15.8
M91-278	16.4	18.0	18.1	16.2	13.6	16.0
M91-1876	16.4	19.1	16.9	17.1	13.2	15.6
M92-405	16.3	16.6	17.6	15.6	14.1	17.8
M92-761	17.4	19.3	18.3	16.3	15.4	17.7
ND90-2624	18.0	19.4	18.5	17.9	15.5	18.7
ND91-2721	18.2	18.6	18.6	18.7	16.2	18.8
ND91-2735	16.8	17.6	16.5	17.1	14.7	18.0
ND(M)90-370	16.3	16.6	17.0	16.4	15.0	16.7
ND(M)90-705	17.0	18.4	17.9	16.6	15.1	17.2
ND(M)90-754	17.2	18.4	17.7	16.8	15.6	17.6

UNIFORM TEST 00, 1996

PROTEIN (%)

Strain	Mean 3 Tests	Crookston MN	Shelly MN	Elora Ont.
Agassiz (0)	43.1	42.3	44.1	42.8
Glacier	43.1	43.3	44.8	41.1
Maple Ridge	43.7	44.1	44.2	42.7
McCall (00)	42.6	42.9	43.9	40.9
M91-278	42.7	42.3	43.2	42.7
M91-1876	46.0	45.7	46.4	45.8
M92-405	42.9	43.3	42.8	42.7
M92-761	43.0	44.2	42.7	42.0
ND90-2624	44.3	45.0	45.2	42.7
ND91-2721	42.3	41.5	43.8	41.6
ND91-2735	43.0	43.1	44.2	41.6
ND(M)90-370	42.1	42.1	42.8	41.4
ND(M)90-705	42.9	43.0	44.0	41.6
ND(M)90-754	43.8	43.8	45.5	42.1

OIL (%)

Strain	Mean 3 Tests			
Agassiz (0)	20.7	20.5	21.0	20.5
Glacier	20.0	20.0	19.7	20.4
Maple Ridge	20.0	19.8	20.0	20.1
McCall (00)	20.0	19.9	20.0	20.2
M91-278	20.0	20.3	20.2	19.5
M91-1876	19.1	19.5	19.3	18.4
M92-405	21.0	21.1	21.0	20.9
M92-761	21.4	20.3	22.2	21.7
ND90-2624	19.6	19.3	19.4	20.0
ND91-2721	20.1	20.2	20.2	19.8
ND91-2735	20.2	20.2	20.2	20.1
ND(M)90-370	21.0	21.4	20.9	20.8
ND(M)90-705	20.3	20.0	20.4	20.4
ND(M)90-754	20.5	20.3	20.1	21.2

UNIFORM TEST 0, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	Agassiz (E)	Simpson x M71-148	4	F5	Rps1
2.	Lambert (0)	M75-274 x M76-151	8	F5	Rps1
3.	Parker (I)	A79-136012 x Dawson	5	F5	Rps1
4.	M91-821	M83-766 x Leslie	1	F5	Rps1
5.	M91-1812	Evans x Ozzie	-	F5	Rps1
6.	M91-2006	Ozzie x PI 467.313	-	F5	
7.	M92-400	Agassiz x Ozzie	-	F4	Rps1
8.	M92-407	Agassiz x Ozzie	-	F4	Rps1
9.	M92-540	M84-855 x Bert	-	F4	Rps1
10.	M92-542	M84-855 x Bert	-	F4	Rps1
11.	M92-547	Glenwood x M85-582	-	F4	Rps1
12.	M92-590	Pioneer 9061 x Ozzie	-	F5	Rps1
13.	M92-592	Pioneer 9061 x Ozzie	-	F5	Rps1
14.	M92-597	Pioneer 9061 x Ozzie	-	F5	Rps1
15.	M92-623	M83-830 x OT87-12	-	F5	Rps1
16.	M92-647	Agassiz x M81-381	-	F5	Rps1
17.	M92-671	Agassiz x Ozzie	-	F4	Rps1
18.	M92-674	Agassiz x Ozzie	-	F4	Rps1
19.	M92-825	M85-564 x Kato	-	F5	Rps1
20.	M92-988	Sturdy x Maple Rodge	-	F4	Rps1
21.	M92-1019	Glenwood x PI 507.285	-	F4	Rps1
22.	M92-1174	Kasota x P596-13	-	F5	Rps1-c
23.	ND90-2624	M82-996 x Sigco KG20	1	F5	
24.	ND92-635	Maple Ridge x Kato	-	F5	Tofu
25.	ND92-720	Ozzie x Kato	-	F5	Tofu
26.	ND92-1111	Ozzie x Proto	-	F5	Tofu
27.	ND(M)89-111	Maple Donovan x M82-303	3	F4	
28.	ND(M)90-370	M81-27 x M83-16	-	F5	
29.	ND(M)90-722	M83-442 x M81-18	2	F5	
30.	ND(M)90-754	M83-442 x M81-18	2	F5	
31.	ND(M)91-455	Natto x M87-926	-	F5	Natto
32.	ND(M)91-468	Minnatto x M87-926	-	F5	Natto
33.	ND(M)91-564	Ozzie x M86-421	-	F5	
34.	ND(M)91-895	M81-27 x M85-52	-	F5	
35.	ND(M)92-795	M85-396 x Pioneer P3010-02	-	F5	
36.	SD93-492	Glenwood x Jack	-	F5	
37.	SD93-863	Parker x Archer	-	F5	
38.	SD93-1040	Parker x Sibley	-	F5	
39.	SD93-1298	Sturdy x PI 153.296	-	F5	
40.	SD(M)92-1233	A86-204022 x Kato	2	F5	
41.	SD(M)92-1272	Sibley x Kato	2	F5	
42.	SD(ND)93-5721	Ozzie x Pioneer 9061	-	F5	
43.	SD(ND)93-5810	M84-93 x Bert	-	F5	
44.	SD(ND)93-6072	Agassiz x Pioneer 9061	-	F5	

* Number of years in test or name of 1995 test.

UNIFORM TEST 0, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Emergence Score Humboldt	Shattering Score Manhattan	Chlorosis Score Humboldt	Chlorosis Score Lamberton	PR Lafayette Race 7
Agassiz	PGBDYBfI	2	2	2.9	3.3	S
Lambert	PGBSYBfI	3	2	2.9	3.7	S
Parker	WGBDYBfI	5	2	3.5	4.3	S
M91-821	WGBDYYI	3	2	3.5	4.3	H
M91-1812	WGBDYYI	1	1	3.0	4.3	S
M91-2006	PGBDYYI	2	4	2.1	3.7	S
M92-400	PGBDYBfI	2	1	2.5	4.0	S
M92-407	PGBDYHI	1	1	3.0	2.7	S
M92-540	WGBIYYI	5	2	3.0	4.3	S
M92-542	P+WGDYYI	5	2	3.2	3.7	S
M92-547	PGBDYIbI	4	1	2.6	4.0	S
M92-590	PGB+TIYYI	3	2	2.6	4.0	S
M92-592	PGBDYYI	5	1	2.1	4.0	S
M92-597	PGB+TIYYI	3	1	3.0	4.0	S
M92-623	WTBDYBlI	3	2	2.6	4.3	S
M92-647	PGBDYBfI	1	2	3.0	4.3	S
M92-671	PGBDYBfI	2	2	2.9	3.7	S
M92-674	PGBDYBfI	2	2	2.4	3.0	S
M92-825	PTBIYBlI	2	3	3.0	4.7	S
M92-988	PTBDYBlI	5	2	2.4	3.7	S
M92-1019	PGBDYIbI	2	1	2.2	4.7	H
M92-1174	PGBIYYI	2	2	3.8	4.3	R
ND90-2624	PTBDYYI	3	2	2.1	3.3	S
ND92-635	PTBIYHI	1	1	2.5	3.7	S
ND92-720	PGBDYYI	5	2	2.0	2.7	S
ND92-1111	PGBDYYI	4	2	2.8	4.3	S
ND(M)89-111	PGBDYYI	5	1	3.0	4.3	S
ND(M)90-370	PGBDYYI	3	1	1.8	2.7	S
ND(M)90-722	PGBDYYI	1	2	3.4	4.0	H
ND(M)90-754	PGBSYYI	1	2	3.0	4.0	S
ND(M)91-455	WTTIYYSD	3	3	3.0	3.7	S
ND(M)91-468	WGTSYYI	1	4	2.4	3.0	S
ND(M)91-564	PGTSYYI	2	3	2.9	4.0	S
ND(M)91-895	PGBDYBfI	1	2	2.2	4.0	S
ND(M)92-795	PGBDYGI	5	2	3.6	5.0	S
SD93-492	P+WGBDYYI	2	1	2.5	4.3	S
SD93-863	PGTDYIbI	1	2	3.1	4.7	R
SD93-1040	WGBDYBfI	5	2	3.8	4.3	S
SD93-1298	PTBIYBlI	3	--	3.4	4.0	R
SD(M)92-1233	PGBDYIbI	1	--	2.6	2.3	H
SD(M)92-1272	WGBDYBfI	1	2	3.1	3.3	S
SD(ND)93-5721	PGBDYYI	3	1	3.1	4.7	S
SD(ND)93-5810	PGBIYYI	1	3	3.1	3.0	S
SD(ND)93-6072	PGBDYBfI	1	1	3.1	4.0	S

UNIFORM TEST 0, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 7 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 5 %	 Oil 5 %
Agassiz	40.1	41	-7.6	1.4	30	1.9	14.4	43.5	20.7
Lambert	47.1	4	09/22	1.6	32	1.9	16.4	43.5	21.2
Parker	48.1	2	7.0	2.7	38	2.0	17.0	42.4	20.7
M91-821	45.1	18	2.4	1.7	33	1.6	16.0	42.1	21.5
M91-1812	43.1	31	3.7	2.1	38	1.7	16.2	43.9	19.9
M91-2006	41.5	38	0.7	1.8	33	1.8	16.6	44.9	18.5
M92-400	44.0	29	-2.7	1.3	33	1.7	15.5	43.6	20.4
M92-407	43.2	30	-3.4	1.3	31	1.5	14.8	43.1	20.9
M92-540	45.6	13	3.7	2.0	37	1.8	18.1	42.9	20.5
M92-542	46.6	9	2.3	1.8	35	1.6	19.0	42.4	20.8
M92-547	41.6	37	-4.0	1.6	30	1.9	15.7	44.3	19.9
M92-590	46.2	12	1.9	1.8	34	1.5	16.0	42.7	21.1
M92-592	44.6	22	-0.1	1.7	33	1.6	15.3	43.8	20.0
M92-597	46.9	6	2.6	1.9	35	1.6	16.2	45.1	20.2
M92-623	45.0	19	-2.6	1.8	34	1.7	15.3	43.5	20.0
M92-647	46.7	8	3.7	1.8	33	1.7	15.1	43.9	20.0
M92-671	44.1	26	-1.7	1.2	30	1.4	15.8	43.1	20.8
M92-674	44.1	26	-3.4	1.4	33	1.6	13.8	43.7	20.6
M92-825	44.5	23	0.6	2.2	38	1.8	16.7	45.9	20.0
M92-988	45.6	13	5.4	1.8	35	1.9	20.1	45.7	19.3
M92-1019	44.2	24	1.7	2.3	34	2.1	17.7	43.0	20.3
M92-1174	44.8	20	4.6	2.0	37	2.1	17.2	44.2	20.0
ND90-2624	41.7	36	-6.6	1.9	30	1.7	17.4	44.2	19.6
ND92-635	42.3	34	-4.7	2.0	35	1.8	19.5	47.2	19.1
ND92-720	42.4	32	-3.7	1.3	32	1.6	19.1	44.2	20.3
ND92-1111	40.6	40	-4.1	1.6	31	1.7	18.1	46.3	18.8
ND(M)89-111	42.4	32	-3.7	1.8	32	1.9	15.7	42.1	21.0
ND(M)90-370	37.7	42	-6.4	1.4	30	1.8	15.2	42.3	20.8
ND(M)90-722	44.7	21	-3.1	1.5	35	1.8	15.9	42.9	21.1
ND(M)90-754	42.0	35	-4.1	1.4	29	1.6	16.7	43.7	21.0
ND(M)91-455	30.8	43	-8.4	1.9	24	1.6	7.8	43.6	19.9
ND(M)91-468	30.8	43	-5.6	2.0	27	1.5	9.2	43.2	19.6
ND(M)91-564	41.3	39	-4.9	1.2	27	1.8	16.2	42.9	20.9
ND(M)91-895	46.6	9	-2.7	1.7	33	1.9	16.4	42.4	20.6
ND(M)92-795	45.3	16	-2.1	1.6	34	2.0	14.3	42.3	21.1
SD93-492	47.0	5	6.3	1.8	37	1.9	17.5	44.5	19.4
SD93-863	45.5	15	4.4	2.4	39	1.9	17.6	41.7	21.2
SD93-1040	44.1	26	5.3	2.3	37	2.0	15.6	42.2	21.0
SD93-1298	45.3	16	3.0	2.0	35	1.9	16.6	44.2	19.4
SD(M)92-1233	48.5	1	2.6	1.4	32	1.9	19.5	44.4	20.5
SD(M)92-1272	46.9	6	2.1	1.5	35	1.7	17.4	44.0	20.7
SD(ND)93-5721	47.9	3	2.1	1.5	34	1.7	15.5	42.5	20.6
SD(ND)93-5810	44.2	24	4.4	1.6	38	2.2	17.1	43.0	20.0
SD(ND)93-6072	46.3	11	1.0	1.6	34	1.8	15.6	42.8	21.2

120.3 Days After Planting

UNIFORM TEST 0, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 13 Date	Lodging 16 Score	Plant Height 16 In.	Seed Quality 16 Score	Seed Size 16 g/100	Composition Protein 10 %	 Oil 10 %
Agassiz	43.8	11	-7.1	1.5	30	1.9	15.1	42.6	20.6
Lambert	50.7	3	9/19.0	1.6	32	1.9	16.7	43.1	20.8
Parker	51.8	2	8.1	2.7	38	2.1	17.6	41.9	20.6
M91-821	50.7	3	2.8	1.7	33	1.6	16.6	42.0	21.3
ND(M)89-111	45.7	9	-3.9	1.7	31	1.8	16.2	41.4	20.8
ND(M)90-722	49.2	7	-2.3	1.5	33	1.8	16.7	43.0	20.8
ND(M)90-754	46.0	8	-3.8	1.5	30	1.6	17.5	43.2	20.7
ND(M)91-564	45.0	10	-4.7	1.2	27	1.7	16.7	42.7	20.9
ND(M)91-895	50.7	3	-2.1	1.8	34	1.9	17.2	41.6	20.6
SD(M)92-1233	52.2	1	3.6	1.5	32	1.8	20.0	43.9	20.3
SD(M)92-1272	49.7	6	3.7	1.6	36	1.6	17.5	43.8	20.4

122.1 Days After Planting

1994-1996 3-YEAR MEAN

No. of Tests Strain	24	24	21	24	24	24	24	13	13
Agassiz	42.9	6	-6.9	1.5	30	1.8	15.1	42.8	20.3
Lambert	51.0	2	9/18.7	1.6	33	1.8	16.7	43.2	20.4
Parker	52.4	1	8.3	2.6	39	2.1	17.7	41.9	20.1
ND(M)89-111	46.2	4	-4.2	1.7	32	1.9	16.3	41.3	20.6
ND(M)90-722	49.9	3	-2.4	1.6	34	1.8	16.6	42.5	20.6
ND(M)90-754	46.1	5	-4.4	1.5	30	1.5	17.4	43.0	20.3

122.8 Days After Planting

1993-1996 4-YEAR MEAN

No. of Tests Strain	27	27	26	28	29	29	29	18	18
Agassiz	40.9	4	-7.7	1.4	29	1.8	14.8	42.5	20.1
Lambert	49.1	2	9/18.5	1.5	31	1.8	16.5	43.0	20.1
Parker	50.5	1	8.3	2.4	37	2.1	17.5	41.5	19.9
ND(M)89-111	45.0	3	-4.5	1.7	31	1.8	16.0	41.0	20.5

123.2 Days After Planting

UNIFORM TEST 0, 1996

YIELD (bu/a)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	40.1	45.5	28.2	34.5	55.8
Lambert	47.1	54.4	31.7	43.0	59.0
Parker	48.1	59.6	35.8	40.4	48.6
M91-821	45.1	54.1	35.0	43.5	54.8
M91-1812	43.1	54.9	28.3	39.4	49.7
M91-2006	41.5	53.0	27.6	38.2	46.2
M92-400	44.0	50.4	29.0	43.0	56.5
M92-407	43.2	57.2	30.1	41.3	55.6
M92-540	45.6	50.9	32.5	35.6	51.1
M92-542	46.6	53.4	34.3	40.5	52.3
M92-547	41.6	51.9	24.6	37.9	50.0
M92-590	46.2	58.6	31.7	41.5	59.0
M92-592	44.6	61.4	29.1	40.1	52.9
M92-597	46.9	61.9	34.9	40.5	52.2
M92-623	45.0	53.2	24.4	42.6	55.4
M92-647	46.7	55.0	38.5	41.1	50.2
M92-671	44.1	53.7	33.8	35.0	55.5
M92-674	44.1	54.2	29.4	35.9	52.8
M92-825	44.5	55.8	32.1	39.8	50.2
M92-988	45.6	56.7	31.6	34.9	51.2
M92-1019	44.2	58.6	28.4	40.6	51.3
M92-1174	44.8	54.8	32.5	34.3	48.0
ND90-2624	41.7	48.1	31.6	37.6	52.0
ND92-635	42.3	53.5	27.5	37.6	50.6
ND92-720	42.4	49.3	30.6	34.9	51.9
ND92-1111	40.6	53.3	25.8	37.9	50.7
ND(M)89-111	42.4	57.3	30.2	37.7	49.9
ND(M)90-370	37.7	53.7	29.1	35.9	45.5
ND(M)90-722	44.7	60.4	32.6	36.1	55.1
ND(M)90-754	42.0	52.0	25.1	34.4	47.5
ND(M)91-455	30.8	52.4	23.2	26.1	30.5
ND(M)91-468	30.8	42.9	24.2	34.5	35.4
ND(M)91-564	41.3	53.2	26.2	41.0	52.2
ND(M)91-895	46.6	63.3	32.2	40.8	56.0
ND(M)92-795	45.3	50.0	32.4	43.5	56.0
SD93-492	47.0	65.3	32.2	37.5	50.0
SD93-863	45.5	63.8	31.8	35.5	47.8
SD93-1040	44.1	53.7	33.3	40.9	45.6
SD93-1298	45.3	58.4	30.6	39.5	46.9
SD(M)92-1233	48.5	50.3	37.4	43.0	56.2
SD(M)92-1272	46.9	62.0	34.3	37.0	51.5
SD(ND)93-5721	47.9	59.3	30.3	42.7	57.0
SD(ND)93-5810	44.2	56.8	34.5	32.6	58.0
SD(ND)93-6072	46.3	65.0	34.3	36.8	55.8
C.V. (%)		12.2	13.9	15.6	8.9
L.S.D. (5%)		11.0	7.0	9.6	6.4
Row Sp. (In.)		10	10	30	16
Rows/Plot		5	5	4	4
Reps		3	3	3	4

UNIFORM TEST 0, 1996

YIELD (bu/a)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	41.8	43.4	35.1	36.1
Lambert	45.6	62.0	38.8	42.6
Parker	48.8	64.1	38.7	48.5
M91-821	42.2	51.5	37.8	41.5
M91-1812	49.3	55.0	29.3	39.2
M91-2006	46.0	55.4	30.1	35.5
M92-400	45.8	53.0	33.4	40.6
M92-407	46.5	48.7	29.8	36.4
M92-540	53.8	58.9	38.1	44.2
M92-542	52.2	60.0	37.6	42.4
M92-547	45.3	50.8	31.0	41.5
M92-590	49.6	48.8	35.1	45.0
M92-592	42.3	52.3	37.0	41.7
M92-597	51.5	58.9	33.0	42.6
M92-623	50.2	57.5	34.1	42.7
M92-647	48.1	56.1	38.1	46.5
M92-671	45.5	52.7	34.2	42.4
M92-674	52.5	48.8	33.1	46.3
M92-825	48.6	54.5	33.7	41.3
M92-988	59.9	46.0	39.9	44.3
M92-1019	50.1	55.5	32.0	37.1
M92-1174	51.8	54.6	37.0	45.2
ND90-2624	44.9	53.9	31.2	33.9
ND92-635	48.2	55.9	30.4	34.8
ND92-720	46.1	49.8	35.5	41.4
ND92-1111	43.4	47.4	29.1	37.5
ND(M)89-111	44.0	46.1	33.6	40.2
ND(M)90-370	40.6	29.6	31.8	35.3
ND(M)90-722	53.4	43.5	35.0	41.6
ND(M)90-754	50.7	46.7	33.8	45.9
ND(M)91-455	23.6	37.8	24.0	28.7
ND(M)91-468	23.5	37.4	20.8	27.7
ND(M)91-564	40.8	42.2	33.1	41.8
ND(M)91-895	50.4	52.8	32.8	44.2
ND(M)92-795	53.4	43.6	37.9	45.9
SD93-492	48.4	68.7	33.1	40.4
SD93-863	48.8	64.6	27.9	44.1
SD93-1040	44.9	60.8	31.9	41.7
SD93-1298	48.8	66.9	31.6	39.3
SD(M)92-1233	51.0	62.7	37.0	50.2
SD(M)92-1272	50.9	55.9	38.6	44.8
SD(ND)93-5721	51.2	57.6	41.0	44.1
SD(ND)93-5810	45.6	53.6	35.1	37.3
SD(ND)93-6072	53.3	49.6	32.5	43.0
C.V. (%)	10.9	13.7	10.5	9.3
L.S.D. (5%)	7.1	12.2	5.7	6.2
Row Sp. (In.)	15	?	30	30
Rows/Plot	4	?	4	4
Reps	4	?	3	3

UNIFORM TEST 0, 1996

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	41	43	35	39	9
Lambert	4	22	20	3	1
Parker	2	9	3	17	35
M91-821	18	24	4	1	15
M91-1812	31	20	34	21	34
M91-2006	38	33	36	22	40
M92-400	29	38	32	3	5
M92-407	30	15	28	9	11
M92-540	13	37	13	34	26
M92-542	9	29	7	15	18
M92-547	37	36	41	23	31
M92-590	12	11	20	8	1
M92-592	22	7	30	18	16
M92-597	6	6	5	15	19
M92-623	19	31	42	7	13
M92-647	8	19	2	10	29
M92-671	26	25	10	36	12
M92-674	26	23	29	32	17
M92-825	23	18	18	19	29
M92-988	13	17	22	37	25
M92-1019	24	11	33	14	24
M92-1174	20	21	13	42	36
ND90-2624	36	42	22	26	21
ND92-635	34	28	37	26	28
ND92-720	32	41	24	37	22
ND92-1111	40	30	39	23	27
ND(M)89-111	32	14	27	25	33
ND(M)90-370	42	25	30	32	42
ND(M)90-722	21	8	12	31	14
ND(M)90-754	35	35	40	41	38
ND(M)91-455	43	34	44	44	44
ND(M)91-468	43	44	43	39	43
ND(M)91-564	39	31	38	11	19
ND(M)91-895	9	4	16	13	7
ND(M)92-795	16	40	15	1	7
SD93-492	5	1	16	28	31
SD93-863	15	3	19	35	37
SD93-1040	26	25	11	12	41
SD93-1298	16	13	24	20	39
SD(M)92-1233	1	39	1	3	6
SD(M)92-1272	6	5	7	29	23
SD(ND)93-5721	3	10	26	6	4
SD(ND)93-5810	24	16	6	43	3
SD(ND)93-6072	11	2	7	30	9

UNIFORM TEST 0, 1996

YIELD RANK

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	40	38	15	38
Lambert	30	9	3	17
Parker	19	6	4	2
M91-821	39	28	9	25
M91-1812	18	20	40	33
M91-2006	28	19	38	39
M92-400	29	23	24	29
M92-407	26	34	39	37
M92-540	2	12	7	11
M92-542	7	11	10	20
M92-547	33	29	36	26
M92-590	17	32	16	8
M92-592	38	26	11	23
M92-597	9	13	28	18
M92-623	15	15	20	16
M92-647	25	16	6	3
M92-671	32	25	19	19
M92-674	6	36	25	4
M92-825	22	21	22	28
M92-988	1	3	2	10
M92-1019	16	7	31	36
M92-1174	8	5	12	7
ND90-2624	34	27	35	42
ND92-635	24	17	37	41
ND92-720	27	30	14	27
ND92-1111	37	35	41	34
ND(M)89-111	36	37	23	31
ND(M)90-370	42	44	33	40
ND(M)90-722	3	40	18	24
ND(M)90-754	13	33	21	5
ND(M)91-455	43	42	43	43
ND(M)91-468	44	43	44	44
ND(M)91-564	41	41	26	21
ND(M)91-895	14	24	29	12
ND(M)92-795	3	39	8	6
SD93-492	23	1	27	30
SD93-863	19	4	42	14
SD93-1040	34	10	32	22
SD93-1298	19	2	34	32
SD(M)92-1233	11	8	13	1
SD(M)92-1272	12	18	5	9
SD(ND)93-5721	10	14	1	13
SD(ND)93-5810	30	22	17	35
SD(ND)93-6072	5	31	30	15

UNIFORM TEST 0, 1996

MATURITY (date)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	-7.6	-6	-6	-14	-8
Lambert	09/22	09/29	09/18	09/22	09/25
Parker	7.0	3	9	14	7
M91-821	2.4	0	2	8	4
M91-1812	3.7	3	3	10	4
M91-2006	0.7	-1	1	2	3
M92-400	-2.7	-2	-3	-1	-2
M92-407	-3.4	-2	-2	-5	-2
M92-540	3.7	0	5	5	6
M92-542	2.3	-1	2	4	3
M92-547	-4.0	-3	-4	-7	-1
M92-590	1.9	0	1	0	5
M92-592	-0.1	1	2	-1	2
M92-597	2.6	3	4	6	5
M92-623	-2.6	-2	-2	-6	3
M92-647	3.7	1	3	8	7
M92-671	-1.7	-1	2	-4	0
M92-674	-3.4	-3	-1	-6	-1
M92-825	0.6	-2	1	2	3
M92-988	5.4	1	7	8	8
M92-1019	1.7	0	2	5	4
M92-1174	4.6	1	3	10	7
ND90-2624	-6.6	-6	-7	-12	0
ND92-635	-4.7	-6	-5	-8	-2
ND92-720	-3.7	-5	-1	-4	0
ND92-1111	-4.1	0	-5	-9	-1
ND(M)89-111	-3.7	-5	-1	-9	0
ND(M)90-370	-6.4	-5	-6	-10	-3
ND(M)90-722	-3.1	-1	-1	-6	-2
ND(M)90-754	-4.1	-5	-5	-8	0
ND(M)91-455	-8.4	-3	-7	-10	-9
ND(M)91-468	-5.6	-6	-4	-10	-3
ND(M)91-564	-4.9	-3	-3	-8	-2
ND(M)91-895	-2.7	-3	0	-2	1
ND(M)92-795	-2.1	-5	0	0	2
SD93-492	6.3	3	6	9	9
SD93-863	4.4	1	3	9	7
SD93-1040	5.3	3	4	11	8
SD93-1298	3.0	-1	2	7	6
SD(M)92-1233	2.6	-1	1	8	3
SD(M)92-1272	2.1	-1	2	6	4
SD(ND)93-5721	2.1	1	3	6	4
SD(ND)93-5810	4.4	1	4	7	11
SD(ND)93-6072	1.0	1	2	0	2
Date Planted	05/24	05/30	05/28	05/23	05/23
Days to Mature	120.3	122	113	122	125

UNIFORM TEST 0, 1996

MATURITY (date)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	-5		-6	-8
Lambert	09/29		09/09	09/22
Parker	2		6	8
M91-821	0		2	1
M91-1812	0		4	2
M91-2006	2		0	-2
M92-400	-3		-4	-4
M92-407	-5		-4	-4
M92-540	2		5	3
M92-542	2		4	2
M92-547	-4		-5	-4
M92-590	3		3	1
M92-592	-3		-2	0
M92-597	0		-2	2
M92-623	-4		-3	-4
M92-647	2		3	2
M92-671	-1		-4	-4
M92-674	-5		-3	-5
M92-825	1		1	-2
M92-988	6		4	4
M92-1019	2		-1	0
M92-1174	4		5	2
ND90-2624	-9		-5	-7
ND92-635	-3		-2	-7
ND92-720	-6		-4	-6
ND92-1111	-3		-5	-6
ND(M)89-111	-2		-4	-5
ND(M)90-370	-4		-9	-8
ND(M)90-722	-1		-4	-7
ND(M)90-754	-1		-4	-6
ND(M)91-455	-12		-10	-8
ND(M)91-468	1		-9	-8
ND(M)91-564	-3		-8	-7
ND(M)91-895	-2		-6	-7
ND(M)92-795	-3		-3	-6
SD93-492	7		5	5
SD93-863	3		5	3
SD93-1040	2		5	4
SD93-1298	0		5	2
SD(M)92-1233	2		4	1
SD(M)92-1272	0		3	1
SD(ND)93-5721	-2		2	1
SD(ND)93-5810	2		4	2
SD(ND)93-6072	2		1	-1
Date Planted	05/29		05/16	05/24
Days to Mature	123		116	121

UNIFORM TEST 0, 1996

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	1.4	1.0	1.0	1.0	1.6
Lambert	1.6	1.0	1.3	1.0	2.0
Parker	2.7	1.7	2.7	1.0	4.1
M91-821	1.7	1.0	1.0	1.0	2.5
M91-1812	2.1	1.7	1.3	1.0	2.4
M91-2006	1.8	1.0	1.0	1.0	3.0
M92-400	1.3	1.0	1.0	1.0	2.0
M92-407	1.3	1.0	1.0	1.0	2.0
M92-540	2.0	1.0	1.7	1.0	3.0
M92-542	1.8	1.0	1.3	1.0	2.6
M92-547	1.6	1.0	1.7	1.0	2.2
M92-590	1.8	1.3	1.0	1.0	2.3
M92-592	1.7	1.0	2.0	1.0	2.3
M92-597	1.9	1.0	1.0	1.0	3.2
M92-623	1.8	1.0	1.0	1.0	2.3
M92-647	1.8	1.0	1.7	1.0	2.9
M92-671	1.2	1.0	1.0	1.0	1.4
M92-674	1.4	1.0	1.0	1.0	2.0
M92-825	2.2	1.0	1.7	1.0	2.6
M92-988	1.8	1.0	1.0	1.0	2.4
M92-1019	2.3	1.0	2.3	1.0	3.3
M92-1174	2.0	1.0	1.3	1.0	3.1
ND90-2624	1.9	1.0	2.7	1.0	2.3
ND92-635	2.0	1.0	2.0	1.0	3.0
ND92-720	1.3	1.0	1.0	1.0	1.4
ND92-1111	1.6	1.0	1.3	1.0	2.0
ND(M)89-111	1.8	1.0	2.3	1.0	1.9
ND(M)90-370	1.4	1.0	1.3	1.0	1.8
ND(M)90-722	1.5	1.0	2.0	1.0	1.6
ND(M)90-754	1.4	1.0	1.7	1.0	1.9
ND(M)91-455	1.9	1.0	2.7	1.0	2.6
ND(M)91-468	2.0	1.0	1.3	1.0	2.8
ND(M)91-564	1.2	1.0	1.0	1.0	1.5
ND(M)91-895	1.7	1.3	1.3	1.0	2.6
ND(M)92-795	1.6	1.0	1.0	1.0	2.8
SD93-492	1.8	1.0	1.0	1.0	3.0
SD93-863	2.4	1.3	2.0	1.0	3.9
SD93-1040	2.3	1.3	2.0	1.0	3.2
SD93-1298	2.0	1.0	2.0	1.0	3.0
SD(M)92-1233	1.4	1.0	1.0	1.0	1.6
SD(M)92-1272	1.5	1.0	1.0	1.0	2.0
SD(ND)93-5721	1.5	1.0	1.0	1.0	2.3
SD(ND)93-5810	1.6	1.3	1.0	1.0	2.9
SD(ND)93-6072	1.6	1.0	1.3	1.0	2.4

UNIFORM TEST 0, 1996

LODGING (score)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	1.1	1.3	2.0	2.0
Lambert	1.4	2.7	2.0	1.0
Parker	2.4	4.0	3.0	3.0
M91-821	1.4	2.7	2.0	2.0
M91-1812	2.4	3.7	2.0	2.0
M91-2006	3.0	2.7	2.0	1.0
M92-400	1.0	1.7	2.0	1.0
M92-407	1.0	1.3	2.0	1.0
M92-540	1.9	3.3	2.0	2.0
M92-542	2.0	2.3	2.0	2.0
M92-547	1.0	2.0	2.0	2.0
M92-590	1.9	2.7	2.0	2.0
M92-592	1.1	2.3	2.0	2.0
M92-597	2.0	2.7	2.0	2.0
M92-623	2.0	2.7	2.0	2.0
M92-647	1.5	2.3	2.0	2.0
M92-671	1.4	1.0	2.0	1.0
M92-674	1.1	1.0	2.0	2.0
M92-825	2.3	3.7	2.0	3.0
M92-988	1.8	3.0	2.0	2.0
M92-1019	2.1	3.7	2.0	3.0
M92-1174	2.1	2.5	2.0	3.0
ND90-2624	1.3	1.7	2.0	3.0
ND92-635	2.3	1.7	2.0	3.0
ND92-720	1.0	1.3	2.0	2.0
ND92-1111	1.8	1.3	2.0	2.0
ND(M)89-111	1.9	2.0	2.0	2.0
ND(M)90-370	1.4	1.3	2.0	1.0
ND(M)90-722	1.4	1.3	2.0	2.0
ND(M)90-754	1.8	1.0	2.0	1.0
ND(M)91-455	1.5	2.7	3.0	1.0
ND(M)91-468	2.8	3.0	3.0	1.0
ND(M)91-564	1.3	1.0	2.0	1.0
ND(M)91-895	1.9	1.3	2.0	2.0
ND(M)92-795	1.5	1.3	2.0	2.0
SD93-492	2.1	1.0	2.0	3.0
SD93-863	2.6	3.3	2.0	3.0
SD93-1040	2.1	3.0	3.0	3.0
SD93-1298	2.0	3.0	2.0	2.0
SD(M)92-1233	1.5	3.3	1.0	1.0
SD(M)92-1272	1.4	1.7	2.0	2.0
SD(ND)93-5721	1.3	2.3	2.0	1.0
SD(ND)93-5810	1.6	2.0	2.0	1.0
SD(ND)93-6072	2.0	2.0	2.0	1.0

UNIFORM TEST 0, 1996

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	30	25	31	34	36
Lambert	32	30	30	39	36
Parker	38	37	40	35	45
M91-821	33	27	31	37	42
M91-1812	38	37	38	39	44
M91-2006	33	31	31	39	41
M92-400	33	29	33	41	39
M92-407	31	27	29	36	37
M92-540	37	34	38	37	47
M92-542	35	31	35	38	43
M92-547	30	29	31	35	34
M92-590	34	33	35	34	42
M92-592	33	33	34	39	41
M92-597	35	32	34	38	42
M92-623	34	32	30	38	42
M92-647	33	31	35	32	41
M92-671	30	30	31	28	36
M92-674	33	32	35	34	40
M92-825	38	32	36	43	44
M92-988	35	29	32	35	43
M92-1019	34	34	35	37	37
M92-1174	37	33	37	40	44
ND90-2624	30	31	33	34	32
ND92-635	35	32	37	41	40
ND92-720	32	30	32	35	36
ND92-1111	31	30	30	34	34
ND(M)89-111	32	29	35	37	38
ND(M)90-370	30	31	32	31	35
ND(M)90-722	35	32	35	42	40
ND(M)90-754	29	29	30	28	36
ND(M)91-455	24	29	24	26	25
ND(M)91-468	27	27	28	29	31
ND(M)91-564	27	29	27	32	31
ND(M)91-895	33	35	31	36	40
ND(M)92-795	34	29	32	35	42
SD93-492	37	33	37	38	46
SD93-863	39	37	40	37	48
SD93-1040	37	36	34	41	44
SD93-1298	35	33	34	40	39
SD(M)92-1233	32	31	30	32	36
SD(M)92-1272	35	33	33	38	40
SD(ND)93-5721	34	34	31	41	41
SD(ND)93-5810	38	39	36	38	51
SD(ND)93-6072	34	31	33	38	43

UNIFORM TEST 0, 1996

PLANT HEIGHT (inches)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	26	26	28	32
Lambert	24	32	29	34
Parker	32	40	35	41
M91-821	26	33	32	35
M91-1812	30	43	34	38
M91-2006	30	30	27	32
M92-400	28	34	25	33
M92-407	25	29	31	30
M92-540	33	40	33	33
M92-542	32	32	26	40
M92-547	24	28	24	31
M92-590	31	36	26	35
M92-592	25	34	26	35
M92-597	29	36	29	38
M92-623	28	35	31	38
M92-647	27	32	31	36
M92-671	27	31	23	34
M92-674	29	28	29	38
M92-825	35	36	35	39
M92-988	35	36	34	38
M92-1019	27	36	28	34
M92-1174	32	32	33	42
ND90-2624	24	31	26	31
ND92-635	30	34	29	34
ND92-720	25	29	29	36
ND92-1111	26	34	25	33
ND(M)89-111	27	32	25	32
ND(M)90-370	25	22	27	33
ND(M)90-722	31	32	32	39
ND(M)90-754	27	22	26	36
ND(M)91-455	15	25	22	26
ND(M)91-468	25	22	24	32
ND(M)91-564	22	24	22	31
ND(M)91-895	27	34	27	37
ND(M)92-795	30	34	29	41
SD93-492	33	40	33	39
SD93-863	33	39	34	44
SD93-1040	31	37	32	42
SD93-1298	25	35	32	38
SD(M)92-1233	27	32	32	34
SD(M)92-1272	30	30	32	41
SD(ND)93-5721	26	32	33	36
SD(ND)93-5810	30	32	36	38
SD(ND)93-6072	29	34	29	34

UNIFORM TEST 0, 1996

SEED QUALITY (score)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	1.9	1.7	2.7	1.0	1.9
Lambert	1.9	1.7	2.7	1.0	2.0
Parker	2.0	2.0	2.3	3.0	2.1
M91-821	1.6	1.7	2.3	1.0	1.7
M91-1812	1.7	1.3	2.3	2.0	2.0
M91-2006	1.8	1.3	2.3	1.0	2.0
M92-400	1.7	1.3	2.7	1.0	1.9
M92-407	1.5	1.0	2.3	1.0	1.6
M92-540	1.8	1.0	3.0	3.0	2.2
M92-542	1.6	1.0	2.3	2.0	2.3
M92-547	1.9	1.0	3.0	2.0	1.8
M92-590	1.5	1.7	2.3	1.0	1.2
M92-592	1.6	1.7	2.0	1.0	1.0
M92-597	1.6	1.7	2.0	1.0	1.0
M92-623	1.7	2.0	2.3	1.0	2.1
M92-647	1.7	1.7	1.7	1.0	1.9
M92-671	1.4	1.3	1.7	1.0	1.4
M92-674	1.6	1.0	2.0	2.0	1.4
M92-825	1.8	1.0	2.3	2.0	1.4
M92-988	1.9	1.3	1.7	1.0	1.6
M92-1019	2.1	1.7	3.0	2.0	2.2
M92-1174	2.1	1.7	2.7	2.0	1.9
ND90-2624	1.7	1.7	2.7	1.0	1.7
ND92-635	1.8	1.3	3.0	2.0	1.3
ND92-720	1.6	1.3	2.7	2.0	1.4
ND92-1111	1.7	1.0	2.3	2.0	1.6
ND(M)89-111	1.9	1.7	3.0	1.0	1.5
ND(M)90-370	1.8	1.7	2.7	1.0	1.7
ND(M)90-722	1.8	1.7	3.0	1.0	1.4
ND(M)90-754	1.6	1.3	2.0	1.0	1.9
ND(M)91-455	1.6	1.3	2.0	1.0	1.8
ND(M)91-468	1.5	1.7	1.7	1.0	1.6
ND(M)91-564	1.8	1.0	2.7	1.0	1.8
ND(M)91-895	1.9	1.7	2.7	1.0	2.0
ND(M)92-795	2.0	1.7	3.0	1.0	1.9
SD93-492	1.9	2.0	1.7	2.0	1.6
SD93-863	1.9	1.7	1.3	3.0	2.5
SD93-1040	2.0	2.0	2.3	2.0	1.8
SD93-1298	1.9	1.7	2.0	2.0	2.3
SD(M)92-1233	1.9	1.3	2.3	3.0	1.7
SD(M)92-1272	1.7	1.3	1.7	2.0	1.2
SD(ND)93-5721	1.7	1.7	3.0	1.0	1.1
SD(ND)93-5810	2.2	2.0	3.0	3.0	2.3
SD(ND)93-6072	1.8	1.7	2.7	1.0	1.8

UNIFORM TEST 0, 1996

SEED QUALITY (score)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	2.5	1.0	2.0	2.0
Lambert	2.5	1.0	2.0	2.0
Parker	2.5	1.0	2.0	1.0
M91-821	2.0	1.0	2.0	1.0
M91-1812	2.0	1.0	2.0	1.0
M91-2006	2.0	1.0	3.0	2.0
M92-400	2.5	1.0	2.0	1.0
M92-407	2.0	1.0	2.0	1.0
M92-540	2.5	1.0	1.0	1.0
M92-542	2.5	1.0	1.0	1.0
M92-547	2.5	1.0	2.0	2.0
M92-590	2.0	1.0	2.0	1.0
M92-592	2.0	1.0	2.0	2.0
M92-597	2.0	1.0	2.0	2.0
M92-623	2.5	1.0	2.0	1.0
M92-647	2.5	1.0	2.0	2.0
M92-671	2.0	1.0	2.0	1.0
M92-674	2.0	1.0	2.0	1.0
M92-825	2.5	1.0	2.0	2.0
M92-988	2.5	1.3	3.0	3.0
M92-1019	2.5	1.0	2.0	2.0
M92-1174	2.5	1.0	3.0	2.0
ND90-2624	2.5	1.0	2.0	1.0
ND92-635	2.0	1.0	2.0	2.0
ND92-720	2.0	1.0	1.0	1.0
ND92-1111	2.0	1.0	2.0	2.0
ND(M)89-111	2.0	1.0	3.0	2.0
ND(M)90-370	2.5	1.0	2.0	2.0
ND(M)90-722	2.0	1.0	2.0	2.0
ND(M)90-754	2.5	1.0	2.0	1.0
ND(M)91-455	2.0	1.0	2.0	2.0
ND(M)91-468	2.0	1.0	2.0	1.0
ND(M)91-564	2.5	1.0	2.0	2.0
ND(M)91-895	3.0	1.0	2.0	2.0
ND(M)92-795	2.5	1.0	3.0	2.0
SD93-492	2.5	1.0	2.0	2.0
SD93-863	2.5	1.0	2.0	1.0
SD93-1040	2.0	1.0	2.0	3.0
SD93-1298	2.0	1.0	2.0	2.0
SD(M)92-1233	2.0	1.0	2.0	2.0
SD(M)92-1272	2.0	1.0	2.0	2.0
SD(ND)93-5721	2.0	1.0	2.0	2.0
SD(ND)93-5810	2.5	1.0	2.0	2.0
SD(ND)93-6072	2.5	1.0	2.0	2.0

UNIFORM TEST 0, 1996

SEED SIZE (g/100)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz	14.4	16.2	13.0	12.2	16.1
Lambert	16.4	18.6	15.2	16.1	17.2
Parker	17.0	17.8	17.1	17.9	16.9
M91-821	16.0	17.4	15.8	17.0	16.9
M91-1812	16.2	17.1	16.2	17.7	16.6
M91-2006	16.6	17.5	17.0	17.3	16.7
M92-400	15.5	17.3	14.3	15.6	16.8
M92-407	14.8	16.3	14.2	13.4	16.4
M92-540	18.1	19.5	16.2	18.3	20.2
M92-542	19.0	20.1	18.4	19.7	20.2
M92-547	15.7	17.5	14.7	14.5	16.6
M92-590	16.0	16.7	16.2	15.7	18.2
M92-592	15.3	15.8	14.8	15.4	16.1
M92-597	16.2	17.8	15.3	16.5	18.1
M92-623	15.3	16.2	14.5	15.0	16.7
M92-647	15.1	15.8	14.5	14.3	17.3
M92-671	15.8	17.1	14.6	15.7	16.6
M92-674	13.8	15.1	13.1	13.0	15.1
M92-825	16.7	18.2	16.3	17.4	17.5
M92-988	20.1	21.7	19.6	19.6	20.2
M92-1019	17.7	19.8	15.8	17.4	19.2
M92-1174	17.2	17.1	16.9	19.9	16.9
ND90-2624	17.4	18.7	16.3	15.7	19.5
ND92-635	19.5	20.7	18.4	19.9	21.2
ND92-720	19.1	20.2	18.8	18.5	19.6
ND92-1111	18.1	19.1	17.1	16.9	19.9
ND(M)89-111	15.7	17.7	15.2	13.6	17.9
ND(M)90-370	15.2	16.5	14.7	13.4	16.8
ND(M)90-722	15.9	17.4	16.1	14.4	17.5
ND(M)90-754	16.7	17.8	15.6	15.7	19.3
ND(M)91-455	7.8	7.0	6.9	9.1	8.4
ND(M)91-468	9.2	8.9	8.7	9.7	10.5
ND(M)91-564	16.2	17.9	16.7	15.4	17.6
ND(M)91-895	16.4	18.5	15.8	16.4	18.1
ND(M)92-795	14.3	14.0	14.9	14.7	16.2
SD93-492	17.5	18.9	15.0	17.2	18.0
SD93-863	17.6	18.9	15.6	19.2	17.6
SD93-1040	15.6	15.2	14.8	16.5	16.6
SD93-1298	16.6	17.0	15.2	18.5	16.8
SD(M)92-1233	19.5	19.5	19.3	20.1	19.9
SD(M)92-1272	17.4	19.3	18.0	17.1	18.0
SD(ND)93-5721	15.5	16.1	16.5	16.2	16.7
SD(ND)93-5810	17.1	17.0	15.7	18.5	19.5
SD(ND)93-6072	15.6	16.2	14.8	14.8	16.1

UNIFORM TEST 0, 1996

SEED SIZE (g/100)

Strain	Woodstock Ont.	L'Acadie Que.	Brookings SD	Watertown SD
Agassiz	15.3	15.1	14.0	13.6
Lambert	16.1	17.2	15.0	15.4
Parker	16.1	18.2	16.0	15.8
M91-821	14.9	16.0	14.0	15.8
M91-1812	15.3	17.7	14.5	14.6
M91-2006	16.9	18.1	14.5	15.0
M92-400	14.6	16.1	14.0	14.9
M92-407	14.5	14.9	14.0	14.8
M92-540	16.6	18.4	17.5	18.2
M92-542	18.4	20.4	16.5	18.4
M92-547	15.3	16.4	14.5	15.8
M92-590	15.8	16.6	14.0	14.8
M92-592	13.9	15.3	15.0	15.7
M92-597	15.8	16.6	14.0	15.3
M92-623	14.3	16.2	14.0	15.4
M92-647	15.1	16.3	13.5	14.2
M92-671	15.3	15.9	15.0	16.1
M92-674	13.2	15.0	13.0	13.1
M92-825	15.9	17.4	15.0	16.1
M92-988	21.3	20.6	18.5	19.3
M92-1019	17.6	18.8	16.0	16.9
M92-1174	16.9	17.8	15.0	17.0
ND90-2624	17.1	19.0	16.0	16.9
ND92-635	19.4	19.5	17.5	19.6
ND92-720	17.4	20.5	18.0	20.0
ND92-1111	18.5	18.4	16.0	18.5
ND(M)89-111	14.3	16.7	14.5	15.9
ND(M)90-370	15.9	15.5	13.5	15.6
ND(M)90-722	15.7	15.6	14.5	15.8
ND(M)90-754	17.2	16.7	15.0	16.5
ND(M)91-455	7.9	7.7	7.0	8.0
ND(M)91-468	11.0	8.7	8.0	8.0
ND(M)91-564	15.5	16.4	14.0	15.8
ND(M)91-895	15.8	16.8	14.0	15.8
ND(M)92-795	13.9	14.1	12.0	14.9
SD93-492	18.3	20.2	16.0	16.5
SD93-863	17.0	19.4	15.5	17.5
SD93-1040	15.3	16.1	14.0	16.2
SD93-1298	16.5	17.7	14.0	17.3
SD(M)92-1233	20.1	21.1	18.0	18.2
SD(M)92-1272	16.3	18.1	15.5	17.0
SD(ND)93-5721	13.8	15.6	13.0	15.9
SD(ND)93-5810	15.2	18.6	14.5	17.4
SD(ND)93-6072	16.4	16.4	13.5	16.3

UNIFORM TEST 0, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Watertown SD
Agassiz	43.5	41.3	42.9	42.8	45.7	44.9
Lambert	43.5	43.3	42.2	43.5	45.4	43.1
Parker	42.4	41.5	41.8	40.2	45.4	43.2
M91-821	42.1	40.8	40.3	40.4	45.9	43.0
M91-1812	43.9	43.3	41.8	42.3	46.5	45.5
M91-2006	44.9	44.3	44.1	43.6	45.2	47.2
M92-400	43.6	41.7	43.8	42.9	45.5	44.3
M92-407	43.1	42.6	41.1	43.3	45.1	43.4
M92-540	42.9	42.2	41.6	42.2	44.7	44.0
M92-542	42.4	43.0	40.2	42.1	42.5	44.2
M92-547	44.3	43.3	43.0	42.4	46.8	46.2
M92-590	42.7	41.6	41.6	42.2	44.8	43.1
M92-592	43.8	42.4	41.8	41.8	46.2	46.9
M92-597	45.1	44.0	43.7	42.9	47.4	47.5
M92-623	43.5	41.3	42.6	44.5	45.3	43.7
M92-647	43.9	44.3	42.8	42.6	46.4	43.2
M92-671	43.1	42.0	41.3	42.9	45.8	43.5
M92-674	43.7	42.3	41.6	42.8	45.6	46.0
M92-825	45.9	45.5	44.2	44.6	47.5	47.6
M92-988	45.7	45.5	45.0	43.1	47.4	47.7
M92-1019	43.0	43.5	42.1	42.2	44.4	42.7
M92-1174	44.2	43.3	42.7	43.4	45.3	46.2
ND90-2624	44.2	45.2	41.7	44.5	46.0	43.4
ND92-635	47.2	46.7	46.4	46.4	46.5	49.8
ND92-720	44.2	43.9	44.4	44.3	44.2	44.4
ND92-1111	46.3	47.1	45.0	45.0	47.3	47.2
ND(M)89-111	42.1	41.2	41.7	41.4	44.3	41.9
ND(M)90-370	42.3	41.4	40.7	42.4	44.3	42.8
ND(M)90-722	42.9	42.2	42.0	42.7	43.4	44.0
ND(M)90-754	43.7	41.8	42.1	43.6	45.3	45.5
ND(M)91-455	43.6	41.9	42.1	43.7	45.6	44.6
ND(M)91-468	43.2	42.5	41.4	42.1	46.2	44.0
ND(M)91-564	42.9	42.5	41.8	43.4	43.1	43.8
ND(M)91-895	42.4	41.6	39.8	41.8	44.9	44.1
ND(M)92-795	42.3	41.5	41.4	40.8	44.5	43.4
SD93-492	44.5	44.3	42.6	44.3	44.7	46.6
SD93-863	41.7	40.5	39.2	40.2	45.7	43.0
SD93-1040	42.2	41.8	41.4	41.4	42.7	43.6
SD93-1298	44.2	43.6	41.5	44.4	46.4	45.1
SD(M)92-1233	44.4	43.1	42.2	44.9	44.0	47.7
SD(M)92-1272	44.0	43.6	42.9	43.1	45.6	44.9
SD(ND)93-5721	42.5	41.8	43.5	41.6	45.0	40.7
SD(ND)93-5810	43.0	41.3	41.5	43.5	45.4	43.1
SD(ND)93-6072	42.8	42.3	40.0	42.1	45.2	44.2

UNIFORM TEST 0, 1996

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Watertown SD
Agassiz	20.7	21.0	21.6	22.1	18.4	20.2
Lambert	21.2	21.6	22.5	22.7	18.3	20.9
Parker	20.7	21.3	21.3	22.0	18.0	20.7
M91-821	21.5	21.8	22.6	23.1	18.5	21.3
M91-1812	19.9	20.5	21.3	21.5	16.6	19.5
M91-2006	18.5	19.1	19.2	19.4	17.3	17.4
M92-400	20.4	20.4	21.1	21.9	18.3	20.4
M92-407	20.9	21.4	21.6	21.7	18.9	20.9
M92-540	20.5	21.1	21.8	21.1	18.6	20.0
M92-542	20.8	21.1	22.4	21.8	19.1	19.5
M92-547	19.9	20.4	20.8	22.1	16.9	19.1
M92-590	21.1	21.7	21.8	22.7	18.6	20.9
M92-592	20.0	21.1	20.9	22.2	17.4	18.5
M92-597	20.2	21.0	22.0	21.5	17.4	19.2
M92-623	20.0	20.3	20.8	21.9	17.6	19.4
M92-647	20.0	20.5	20.8	21.1	17.7	19.8
M92-671	20.8	21.5	21.2	22.5	18.2	20.5
M92-674	20.6	21.2	22.1	21.8	18.3	19.7
M92-825	20.0	20.2	21.8	21.2	17.4	19.3
M92-988	19.3	19.2	20.1	21.2	17.3	18.7
M92-1019	20.3	19.8	21.3	21.6	18.8	19.9
M92-1174	20.0	20.9	21.5	20.6	17.7	19.2
ND90-2624	19.6	19.3	20.4	21.0	18.0	19.2
ND92-635	19.1	19.3	20.3	20.1	17.6	18.0
ND92-720	20.3	21.1	20.6	21.6	19.0	19.4
ND92-1111	18.8	19.0	19.4	20.6	16.9	18.0
ND(M)89-111	21.0	21.8	21.6	22.6	18.8	20.3
ND(M)90-370	20.8	21.7	21.1	21.9	18.2	21.0
ND(M)90-722	21.1	21.8	21.8	22.6	18.7	20.8
ND(M)90-754	21.0	21.3	22.0	23.0	18.4	20.1
ND(M)91-455	19.9	20.5	20.9	21.5	18.1	18.7
ND(M)91-468	19.6	19.7	20.4	21.7	17.0	19.2
ND(M)91-564	20.9	21.6	21.8	21.3	19.1	20.7
ND(M)91-895	20.6	21.3	22.1	22.1	17.4	20.1
ND(M)92-795	21.1	21.7	22.0	22.5	19.0	20.1
SD93-492	19.4	19.1	21.1	20.5	17.9	18.2
SD93-863	21.2	21.5	23.7	22.5	17.2	21.0
SD93-1040	21.0	21.0	22.3	22.1	19.3	20.1
SD93-1298	19.4	19.5	20.5	20.8	17.3	19.1
SD(M)92-1233	20.5	21.1	22.0	20.9	18.9	19.4
SD(M)92-1272	20.7	21.4	21.6	21.9	18.5	20.0
SD(ND)93-5721	20.6	22.1	21.4	21.1	18.5	20.0
SD(ND)93-5810	20.0	20.6	21.4	20.5	17.5	19.9
SD(ND)93-6072	21.2	21.1	22.6	23.0	18.6	20.8

UNIFORM TEST I, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	Freeborn (SCN)	Ozzie x Fayette	-	F8	SCN 3, Rps1
2.	Lambert (0)	M75-274 x M76-151	4	F5	Rps1
3.	Marcus 95 (L)	[Marcus(5) x Elgin 87] x [Marcus(5) x Preston BC-11-1]	3	BC4 F2	Rps1-k, Rps6
4.	Parker (I)	A79-136012 x Dawson	7	F5	Rps1
5.	A92-525014 (BSR)	IA2008 x Kenwood	2	F5	BSR
6.	A94-572028	(Northrup King S19-90 x Bell) x A89-144026	-	F4	
7.	E93147	E86067 x Kenwood	-	F5	
8.	M89-936	M84-492 x M74-498	2	F5	Het. Rps1
9.	M89-1665	Cartter x M85-933	2	F5	Scn 3, Rps1
10.	M90-1279	BRS 101 x Kato	1	F5	Rps1
11.	M91-856	M81-18 x BSR 101	-	F5	Rps1
12.	M91-947	(Sturdy x Kato)F1 x (Hardin x Kato)F1	1	F4	Rps1
13.	M91-1087	M82-559 x Kato	-	F5	Rps1-c
14.	M91-1137	Kasota x Kenwood	-	F5	Rps1-c
15.	M91-1185	Sturdy x Kato	-	F5	Rps1
16.	M91-1195	Sturdy x Kato	UT 0	F5	Rps1
17.	M91-1416	M83-727 x A86-104011	UT 0	F5	Rps1
18.	M91-1590	Burlison x M83-744	-	F5	Rps1-c + 3?
19.	M91-1644	Haroson x Sturdy	UT 0	F5	Rps1-c
20.	M92-1645 (SCN)	Faribault x Bell	SCN I	?	
21.	M92-1708 (SCN)	Kato x Bell	SCN I	?	
22.	ORC 9404	ORC 8703 x Northrup King S26-06	-	F5	
23.	SD(M)91-1763	M84-1023 x Sturdy	1	F5	
24.	SD(M)92-1357	Hack x Lambert	1	F5	
25.	SD(M)93-60	Kato x PI 467.313	-	F5	
26.	SD(M)93-905	Kasota x Leslie	-	F5	
27.	SD(M)93-986	Sturdy x Maple Ridge	-	F5	

* Number of years in test or name of 1995 test.

UNIFORM TEST I, 1996

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Hum-boldt	Chlorosis Score Lamber-ton	Emerg. Score Humboldt	Shattering Score Manhattan
Freeborn (SCN)	WTBIYBlI	3.4	3.3	1	2
Lambert (0)	PGBSYBfI	2.5	4.7	3	2
Marcus 95 (L)	WTTDYBfI	4.4	4.3	3	1
Parker (I)	WGBDYBfI	4.0	4.3	5	2
A92-525014 (BSR)	PTBSYBlI	3.4	3.3	1	2
A94-572028	PTTIYBlI	3.2	4.3	1	1
E93147	PTBDYBlI	4.2	4.7	4	1
M89-936	WGBDYYI	2.6	3.3	5	1
M89-1665	PTTDYBlI	2.2	4.0	5	2
M90-1279	PTTDYBlI	3.2	4.3	5	2
M91-856	PGTIYIbI	3.4	4.0	2	3
M91-947	PGBDYIbI	3.4	4.7	5	1
M91-1087	PGBDYYI	3.4	2.7	3	1
M91-1137	PGBDYBfI	3.8	4.7	2	1
M91-1185	PGBDYIbI	3.1	4.7	5	1
M91-1195	PTBDYBlI	2.8	4.0	5	2
M91-1416	PTTDYBrI	3.6	4.0	1	1
M91-1590	P+WGTDYBfI	2.2	4.0	3	1
M91-1644	PGBDYBfI	2.8	2.7	5	1
M92-1645 (SCN)	PGTDYIbI	3.1	2.3	3	2
M92-1708 (SCN)	PTBDYBlI	3.5	2.7	2	2
ORC 9404	PGBSYBfI	4.2	5.0	3	2
SD(M)91-1763	PGBDYYI	5.0	5.0	1	1
SD(M)92-1357	PGBSYIbI	3.6	3.7	1	1
SD(M)93-60	PTBIYBlI	3.2	4.0	2	2
SD(M)93-905	PGBDYIbI	3.4	4.0	5	1
SD(M)93-986	PG+TBSYHI	3.2	3.7	2	1

UNIFORM TEST I, 1996

DISEASE DATA

Strain	BSR Resistance % Incid.	BSR Resistance % Sev.	PR Lafayette Race 7	Hard Seed Lafayette %	PS Lafayette a %	PSB Lafayette n %
Freeborn (SCN)			R	10	12	0
Lambert (0)			S	40	20	0
Marcus 95 (L)			R	22	25	4
Parker (I)			S	32	4	0
A92-525014 (BSR)	30	28	H	24	28	4
A94-572028	85	33	R	0	26	0
E93147			S	0	68	6
M89-936			H	14	10	2
M89-1665			S	42	28	0
M90-1279			S	6	26	2
M91-856			S	0	30	0
M91-947			S	26	24	0
M91-1087			H	8	40	6
M91-1137			R	18	42	4
M91-1185			H	38	16	4
M91-1195			S	16	42	10
M91-1416			S	6	32	0
M91-1590			R	44	22	2
M91-1644			R	38	20	14
M92-1645 (SCN)			R	6	36	4
M92-1708 (SCN)			S	0	24	4
ORC 9404			S	24	28	0
SD(M)91-1763			H	30	4	0
SD(M)92-1357			S	10	22	0
SD(M)93-60			H	40	16	0
SD(M)93-905			S	20	18	6
SD(M)93-986			H	38	18	4

UNIFORM TEST I, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 12 Date	Lodging 14 Score	Plant Height 14 In.	Seed Quality 14 Score	Seed Size 14 g/100	Composition Protein 5 %	 Oil 5 %
Freeborn (SCN)	46.5	17	2.6	1.5	32	1.3	17.9	43.2	20.3
Lambert (0)	42.5	26	-6.0	1.5	29	1.7	16.7	43.4	20.7
Marcus 95 (L)	48.6	9	5.0	1.7	30	1.7	17.3	42.1	20.7
Parker (I)	49.0	5	09/20	2.4	34	1.6	17.3	41.8	20.6
A92-525014 (BSR)	51.0	1	1.6	1.9	36	1.3	16.4	41.8	20.1
A94-572028	47.3	11	-0.9	1.2	29	1.2	18.3	42.4	21.1
E93147	48.7	8	3.9	1.4	31	1.7	17.8	41.3	20.6
M89-936	45.6	23	-3.2	1.3	34	1.5	17.4	43.1	19.9
M89-1665	34.0	27	1.2	1.8	32	1.4	14.0	42.2	20.3
M90-1279	48.9	6	-1.7	1.4	34	1.5	19.5	43.1	20.3
M91-856	46.3	20	1.1	1.7	34	1.4	16.1	42.4	19.7
M91-947	48.9	6	2.2	1.8	34	1.3	17.3	42.6	20.4
M91-1087	47.0	15	3.4	1.5	32	1.3	19.0	44.5	19.4
M91-1137	50.9	2	3.2	1.8	35	1.4	15.6	42.7	20.4
M91-1185	47.2	13	0.3	1.3	32	1.5	19.9	43.8	19.9
M91-1195	46.5	17	-1.2	1.6	33	1.6	19.4	44.1	20.0
M91-1416	46.6	16	-2.8	1.6	30	1.4	16.2	42.4	20.0
M91-1590	47.1	14	3.5	1.6	31	1.3	18.4	44.6	19.5
M91-1644	43.1	25	-3.3	1.9	32	1.4	15.6	41.9	20.9
M92-1645 (SCN)	48.3	10	2.9	1.5	31	1.5	16.2	42.9	20.7
M92-1708 (SCN)	47.3	11	1.5	1.7	33	1.4	20.2	44.4	19.4
ORC 9404	50.5	3	3.8	1.5	30	1.5	18.8	42.2	20.1
SD(M)91-1763	46.3	20	0.0	1.3	30	1.5	16.3	43.0	20.2
SD(M)92-1357	45.9	22	-1.9	1.3	29	1.3	17.3	41.9	21.2
SD(M)93-60	46.4	19	-2.4	1.7	31	1.8	21.5	44.0	19.7
SD(M)93-905	45.0	24	0.8	1.6	32	1.4	17.5	41.5	21.1
SD(M)93-986	49.8	4	2.2	2.0	33	1.6	21.0	43.0	20.0

120.1 Days After Planting

UNIFORM TEST I, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 28 bu/a	Rank 28 No.	Maturity 22 Date	Lodging 28 Score	Plant Height 28 In.	Seed Quality 28 Score	Seed Size 28 g/100	Composition Protein 10 %	 Oil 10 %
Lambert	44.2	8	-5.0	1.4	29	1.8	17.0	43.5	20.8
Marcus 95	49.6	3	4.5	1.6	31	1.9	17.1	41.6	20.7
Parker	1/ 50.1	2	9/17.5	2.3	35	1.7	17.7	41.8	20.6
A92-525014	1/ 51.8	1	1.2	1.9	37	1.6	16.3	41.5	20.1
M89-936	46.7	7	-2.5	1.3	34	1.7	17.5	43.2	20.0
M89-1665	39.8	9	-0.7	1.7	33	1.7	14.2	42.3	20.1
M90-1279	1/ 49.6	3	-1.3	1.3	35	1.7	19.7	43.1	20.2
SD(M)91-1763	48.1	5	0.3	1.3	30	1.7	16.1	42.3	20.3
SD(M)92-1357	47.4	6	-1.4	1.2	29	1.6	17.7	42.1	20.8

119.7 Days After Planting

1994-1996 3-YEAR MEAN

No. of Tests Strain	42	42	33	42	42	42	41	13	13
Lambert	45.0	5	-6.1	1.5	30	1.8	17.1	43.1	20.6
Marcus 95	51.9	2	4.4	1.8	33	1.9	17.6	41.2	20.5
Parker	51.7	3	9/17.3	2.5	36	1.7	17.9	41.5	20.5
A92-525014	53.7	1	1.3	2.0	38	1.6	17.0	41.4	20.0
M89-936	47.5	4	-3.3	1.5	35	1.7	17.5	42.7	19.9
M89-1665	42.7	6	-1.8	1.9	33	1.7	14.7	42.0	19.8

121.3 Days After Planting

UNIFORM TEST I, 1996

YIELD (bu/a)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	46.5	47.5	50.3	46.4	36.4	49.1	43.4	46.9	46.2
Lambert (0)	42.5	45.2	43.6	43.9	29.0	33.9	40.3	45.0	45.9
Marcus 95 (L)	48.6	48.0	56.0	51.9	33.7	44.7	43.8	57.8	49.2
Parker (I)	49.0	45.1	55.8	49.6	31.2	39.6	35.5	62.8	54.0
A92-525014 (BSR)	51.0	50.4	55.8	47.4	41.6	46.6	44.2	56.7	54.1
A94-572028	47.3	43.5	56.9	47.5	28.1	35.5	40.1	53.9	49.0
E93147	48.7	49.9	58.9	48.9	33.6	37.4	48.6	57.8	44.1
M89-936	45.6	45.7	51.0	43.7	31.2	38.2	43.3	49.8	51.3
M89-1665	34.0	44.1	41.0	42.4	24.7	33.3	36.9	34.5	33.0
M90-1279	48.9	48.6	55.6	48.5	31.9	46.3	43.8	55.3	47.9
M91-856	46.3	45.5	50.8	46.4	37.5	45.1	36.3	52.0	47.8
M91-947	48.9	51.3	55.5	53.6	33.3	34.8	47.6	56.4	52.9
M91-1087	47.0	46.4	53.1	49.7	33.2	33.1	39.7	64.4	48.7
M91-1137	50.9	48.3	55.2	47.1	42.3	52.0	48.7	68.5	50.4
M91-1185	47.2	50.0	51.3	49.9	30.5	37.5	49.0	55.6	45.2
M91-1195	46.5	48.6	51.1	49.2	31.4	42.5	38.2	52.5	48.2
M91-1416	46.6	44.9	50.5	47.5	28.0	44.2	32.4	60.0	51.2
M91-1590	47.1	52.1	53.2	47.0	27.2	38.2	39.7	58.8	48.7
M91-1644	43.1	40.3	48.5	43.8	21.1	34.4	44.4	51.4	52.0
M92-1645 (SCN)	48.3	51.0	54.7	52.5	32.1	50.3	50.9	59.0	43.1
M92-1708 (SCN)	47.3	49.0	54.8	49.2	35.8	36.1	42.2	59.5	47.1
ORC 9404	50.5	52.0	56.4	51.5	24.2	41.5	44.5	61.9	56.9
SD(M)91-1763	46.3	50.1	52.2	46.1	23.5	36.1	43.6	62.1	53.9
SD(M)92-1357	45.9	42.1	46.6	52.2	22.5	31.4	45.7	58.1	50.4
SD(M)93-60	46.4	44.3	45.1	48.3	26.4	40.4	42.8	53.6	48.5
SD(M)93-905	45.0	47.2	49.0	50.7	26.9	36.6	34.8	54.4	51.9
SD(M)93-986	49.8	50.5	55.6	49.8	33.9	47.6	42.3	65.3	50.1
C.V. (%)		7.2	5.8	5.6	15.6	17.3	12.3	9.2	7.7
L.S.D. (5%)		5.6	5.0	4.5	7.9	15.6	11.3	8.5	6.2
Row Sp. (In.)		27	27	27	24	30	30	10	10
Rows/Plot		4	4	4	4	4	4	6	6
Reps		3	3	3	3	2	2	3	3

UNIFORM TEST I, 1996

YIELD (bu/a)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	59.6	47.1	49.8	48.3	41.8	38.8
Lambert (0)	54.9	45.2	32.1	47.8	42.3	45.4
Marcus 95 (L)	60.9	45.8	51.4	48.1	47.1	42.5
Parker (I)	61.7	47.2	58.4	52.2	46.5	46.7
A92-525014 (BSR)	62.9	50.7	51.9	61.4	45.6	44.5
A94-572028	65.1	52.2	49.7	47.8	46.2	46.2
E93147	62.8	54.3	46.1	50.1	47.0	42.9
M89-936	60.5	41.4	38.4	54.2	44.6	44.9
M89-1665	40.8	16.1	44.0	34.0	29.6	21.7
M90-1279	57.1	54.5	48.2	58.2	43.0	45.0
M91-856	62.1	43.5	48.6	49.5	40.7	42.6
M91-947	59.8	39.0	51.2	57.3	46.1	45.3
M91-1087	55.6	44.8	51.6	51.6	43.6	41.9
M91-1137	60.9	48.0	52.4	52.1	43.7	43.0
M91-1185	60.7	46.5	44.7	54.2	42.5	43.5
M91-1195	56.9	42.2	50.8	50.9	44.3	43.5
M91-1416	60.9	39.3	46.0	51.3	45.7	50.2
M91-1590	56.6	46.8	53.2	58.2	41.0	38.3
M91-1644	54.2	37.0	42.8	50.5	41.1	42.1
M92-1645 (SCN)	60.6	40.2	53.5	47.4	41.3	39.9
M92-1708 (SCN)	57.9	48.2	54.3	46.9	41.1	40.7
ORC 9404	62.9	48.8	59.6	56.0	45.1	45.2
SD(M)91-1763	64.0	44.5	34.9	50.0	43.9	43.4
SD(M)92-1357	63.5	45.3	40.3	45.3	48.8	49.9
SD(M)93-60	61.6	43.7	48.7	59.6	42.9	43.6
SD(M)93-905	55.9	42.7	43.9	50.6	43.0	42.5
SD(M)93-986	62.7	44.5	52.0	52.6	45.2	45.1
C.V. (%)	5.3	10.9	7.2	8.4	5.7	5.7
L.S.D. (5%)	6.8	9.7	5.2	6.0	4.0	4.0
Row Sp. (In.)	30	30	17	15	30	30
Rows/Plot	4	4	5	4	4	4
Reps	3	3	3	4	3	3

UNIFORM TEST I, 1996

YIELD RANK

Strain	Yield Rank	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	17	15	21	21	4	3	13	25	21
Lambert (0)	26	20	26	24	17	24	18	26	22
Marcus 95 (L)	9	14	4	4	7	8	10	12	13
Parker (I)	5	21	5	10	14	13	25	4	3
A92-525014 (BSR)	1	6	5	18	2	5	9	14	2
A94-572028	11	25	2	16	18	21	19	19	14
E93147	8	9	1	13	8	17	4	13	25
M89-936	23	18	18	26	14	15	14	24	8
M89-1665	27	24	27	27	23	26	23	27	27
M90-1279	6	11	7	14	12	6	10	17	18
M91-856	20	19	19	21	3	7	24	22	19
M91-947	6	3	9	1	9	22	5	15	5
M91-1087	15	17	14	9	10	27	20	3	15
M91-1137	2	13	10	19	1	1	3	1	10
M91-1185	13	8	16	7	16	16	2	16	24
M91-1195	17	11	17	11	13	10	22	21	17
M91-1416	16	22	20	16	19	9	27	7	9
M91-1590	14	1	13	20	20	14	20	10	23
M91-1644	25	27	23	25	27	23	8	23	6
M92-1645 (SCN)	10	4	12	2	11	2	1	9	26
M92-1708 (SCN)	11	10	11	11	5	19	17	8	20
ORC 9404	3	2	3	5	24	11	7	6	1
SD(M)91-1763	20	7	15	23	25	19	12	5	4
SD(M)92-1357	22	26	24	3	26	25	6	11	10
SD(M)93-60	19	23	25	15	22	12	15	20	15
SD(M)93-905	24	16	22	6	21	18	26	18	7
SD(M)93-986	4	5	7	8	6	4	16	2	12

UNIFORM TEST I, 1996

YIELD RANK

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	18	9	12	20	21	25
Lambert (0)	25	14	27	22	20	5
Marcus 95 (L)	11	12	9	21	2	19
Parker (I)	9	8	16	10	4	3
A92-525014 (BSR)	5	4	7	1	8	11
A94-572028	1	3	13	22	5	4
E93147	6	2	18	17	3	17
M89-936	16	22	25	7	11	10
M89-1665	27	27	21	27	27	27
M90-1279	20	1	17	3	17	9
M91-856	8	19	15	19	26	18
M91-947	17	25	10	5	6	6
M91-1087	24	15	8	12	15	22
M91-1137	13	7	5	11	14	16
M91-1185	14	11	20	7	19	14
M91-1195	21	21	11	14	12	13
M91-1416	12	24	19	13	7	1
M91-1590	22	10	4	3	25	26
M91-1644	26	26	23	16	23	21
M92-1645 (SCN)	15	23	3	24	22	24
M92-1708 (SCN)	19	6	2	25	24	23
ORC 9404	4	5	1	6	10	7
SD(M)91-1763	2	16	26	18	13	15
SD(M)92-1357	3	13	24	26	1	2
SD(M)93-60	10	18	14	2	18	12
SD(M)93-905	23	20	22	15	16	20
SD(M)93-986	7	17	6	9	9	8

UNIFORM TEST I, 1996

MATURITY (date)

Strain	Mean 12 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	2.6		3		5	5	0	3	5
Lambert (0)	-6.0		-10		-2	-4	-1	-8	-5
Marcus 95 (L)	5.0		4		7	7	6	9	6
Parker (I)	09/20		09/17		09/17	09/12	09/12	09/25	09/25
A92-525014 (BSR)	1.6		3		4	0	0	3	1
A94-572028	-0.9		-1		3	-2	0	0	0
E93147	3.9		5		6	0	4	8	7
M89-936	-3.2		-5		-1	-6	-1	-3	-1
M89-1665	1.2		3		2	4	3	1	4
M90-1279	-1.7		-1		1	-5	0	-1	-1
M91-856	1.1		-1		4	3	1	0	4
M91-947	2.2		2		5	0	1	4	2
M91-1087	3.4		3		5	1	5	6	5
M91-1137	3.2		3		7	8	5	4	4
M91-1185	0.3		0		3	1	2	-1	1
M91-1195	-1.2		-1		1	4	0	-2	-1
M91-1416	-2.8		-4		0	-2	1	-2	-1
M91-1590	3.5		1		5	4	4	6	6
M91-1644	-3.3		-6		-3	-6	0	-3	-2
M92-1645 (SCN)	2.9		3		4	7	7	5	3
M92-1708 (SCN)	1.5		3		4	0	1	2	3
ORC 9404	3.8		6		5	4	5	5	5
SD(M)91-1763	0.0		-2		4	3	0	-2	1
SD(M)92-1357	-1.9		-5		2	-9	0	0	0
SD(M)93-60	-2.4		-4		-2	-1	0	-3	-2
SD(M)93-905	0.8		3		3	0	1	0	1
SD(M)93-986	2.2		2		4	7	1	4	2
Date Planted	05/23		05/06		06/16	05/16	05/17	05/20	05/29
Days to Mature	120.1		134		93	119	118	128	119

UNIFORM TEST I, 1996

MATURITY (date)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	0	4	0	4	3	-1
Lambert (0)	-9	-5	-9	-4	-8	-7
Marcus 95 (L)	0	7	4	7	3	0
Parker (I)	09/25	09/12	09/20	09/26	09/25	09/28
A92-525014 (BSR)	0	5	-1	4	0	0
A94-572028	-5	-1	-1	-1	0	-3
E93147	0	3	3	8	1	2
M89-936	-6	0	-5	-3	-4	-3
M89-1665	-4	1	-1	4	-1	-2
M90-1279	-2	0	-5	1	-3	-4
M91-856	0	1	0	3	0	-2
M91-947	4	1	-1	6	3	-1
M91-1087	0	6	1	4	3	2
M91-1137	-1	4	2	2	1	-1
M91-1185	0	1	-3	1	0	-2
M91-1195	-4	-1	-2	-2	-2	-4
M91-1416	-7	-2	-7	0	-4	-5
M91-1590	2	6	0	7	1	0
M91-1644	-5	-3	-4	-2	-3	-3
M92-1645 (SCN)	0	0	0	4	2	0
M92-1708 (SCN)	0	2	-1	6	-1	-1
ORC 9404	3	4	2	6	1	0
SD(M)91-1763	-3	-1	1	5	-4	-2
SD(M)92-1357	-1	0	-3	0	-4	-3
SD(M)93-60	-4	0	-6	-1	-3	-3
SD(M)93-905	0	1	1	3	-1	-2
SD(M)93-986	0	2	1	5	0	-2
Date Planted	05/22	05/23	05/31	05/28	05/16	05/24
Days to Mature	126	112	112	121	132	127

UNIFORM TEST I, 1996

LODGING (score)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	1.5	1.6	1.3	1.2	1.2	1.0	1.0	1.3	1.0
Lambert (0)	1.5	1.5	1.4	1.1	1.0	1.0	1.0	1.7	1.0
Marcus 95 (L)	1.7	1.4	1.4	1.1	1.0	1.5	2.0	2.0	1.7
Parker (I)	2.4	3.0	2.0	2.0	1.0	2.0	2.0	2.3	2.0
A92-525014 (BSR)	1.9	1.6	1.4	1.2	1.2	1.5	2.0	2.3	1.0
A94-572028	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.7	1.0
E93147	1.4	1.5	1.4	1.2	1.0	1.0	1.0	1.7	1.0
M89-936	1.3	1.3	1.2	1.0	1.0	1.0	1.0	1.7	1.3
M89-1665	1.8	1.7	1.7	1.2	1.0	1.5	2.0	2.3	2.0
M90-1279	1.4	1.6	1.3	1.2	1.0	1.0	1.0	2.0	1.7
M91-856	1.7	1.5	1.5	1.3	1.0	1.0	1.0	2.7	2.0
M91-947	1.8	1.8	1.3	1.4	1.0	1.0	1.0	2.3	1.3
M91-1087	1.5	1.3	1.2	1.0	1.0	1.0	1.0	1.7	1.3
M91-1137	1.8	2.2	1.3	1.1	1.0	1.5	2.0	2.7	1.3
M91-1185	1.3	1.3	1.2	1.1	1.0	1.0	1.0	1.7	1.0
M91-1195	1.6	1.7	1.5	1.2	1.0	1.5	2.0	1.7	2.0
M91-1416	1.6	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0
M91-1590	1.6	1.5	1.3	1.0	1.0	1.0	1.0	1.3	2.0
M91-1644	1.9	1.8	1.4	1.1	1.0	1.5	2.0	2.3	2.0
M92-1645 (SCN)	1.5	1.3	1.2	1.1	1.0	1.5	2.0	1.0	1.3
M92-1708 (SCN)	1.7	1.7	1.4	1.3	1.0	1.5	2.0	2.0	1.0
ORC 9404	1.5	1.5	1.3	1.1	1.0	1.0	1.0	2.3	2.0
SD(M)91-1763	1.3	1.3	1.2	1.1	1.0	1.0	1.0	1.0	1.0
SD(M)92-1357	1.3	1.2	1.1	1.1	1.0	1.0	1.0	1.0	1.0
SD(M)93-60	1.7	1.5	1.3	1.1	1.0	1.5	1.0	1.7	1.3
SD(M)93-905	1.6	1.4	1.2	1.1	1.0	1.0	1.0	2.0	1.7
SD(M)93-986	2.0	1.5	1.4	1.3	1.0	2.0	2.0	2.7	1.0

UNIFORM TEST I, 1996

LODGING (score)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	2.0	2.0	1.0	3.0	2.0	2.0
Lambert (0)	1.3	3.0	1.0	1.5	2.0	2.0
Marcus 95 (L)	2.0	1.3	1.0	3.6	2.0	2.0
Parker (I)	3.0	3.7	1.0	4.0	3.0	3.0
A92-525014 (BSR)	2.3	2.3	1.0	3.4	3.0	2.0
A94-572028	1.0	1.0	1.0	1.1	2.0	1.0
E93147	1.0	1.7	1.0	2.1	2.0	2.0
M89-936	2.0	1.7	1.0	1.5	2.0	1.0
M89-1665	2.3	1.0	1.0	2.9	3.0	2.0
M90-1279	2.0	1.7	1.0	1.6	2.0	1.0
M91-856	2.0	2.3	1.0	2.9	2.0	2.0
M91-947	3.0	2.7	1.0	2.9	2.0	3.0
M91-1087	2.0	2.0	1.0	2.3	2.0	2.0
M91-1137	2.0	1.7	1.0	2.8	2.0	2.0
M91-1185	2.0	1.3	1.0	1.3	2.0	1.0
M91-1195	2.0	2.3	1.0	1.4	2.0	1.0
M91-1416	2.0	2.7	1.0	2.8	2.0	3.0
M91-1590	2.0	1.7	1.0	2.9	2.0	2.0
M91-1644	2.0	3.0	1.0	2.5	2.0	3.0
M92-1645 (SCN)	1.3	1.3	1.0	2.6	2.0	2.0
M92-1708 (SCN)	2.0	2.0	1.0	3.3	2.0	2.0
ORC 9404	1.0	1.3	1.0	2.5	2.0	2.0
SD(M)91-1763	1.3	1.3	1.0	2.0	2.0	2.0
SD(M)92-1357	1.7	2.3	1.0	2.3	1.0	2.0
SD(M)93-60	2.0	3.0	1.0	2.1	2.0	3.0
SD(M)93-905	2.0	2.3	1.0	3.0	2.0	2.0
SD(M)93-986	2.7	3.0	1.0	4.0	2.0	3.0

UNIFORM TEST I, 1996

PLANT HEIGHT (inches)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	32	32	33	35	27	28	24	26	32
Lambert (0)	29	32	29	32	26	22	19	23	26
Marcus 95 (L)	30	32	32	34	25	27	25	27	33
Parker (I)	34	36	38	37	30	27	26	28	34
A92-525014 (BSR)	36	38	37	39	30	33	31	29	34
A94-572028	29	32	31	31	24	22	23	26	29
E93147	31	32	33	35	24	26	26	31	32
M89-936	34	38	35	35	28	27	28	26	32
M89-1665	32	35	35	34	28	27	26	28	32
M90-1279	34	38	37	39	29	26	25	28	34
M91-856	34	37	36	38	30	30	25	28	33
M91-947	34	37	36	38	31	27	24	26	32
M91-1087	32	35	36	36	26	26	21	31	33
M91-1137	35	38	37	37	31	34	31	28	35
M91-1185	32	36	32	35	27	25	24	28	29
M91-1195	33	36	36	37	29	31	22	29	31
M91-1416	30	32	29	30	26	26	21	27	29
M91-1590	31	35	33	34	24	24	24	30	30
M91-1644	32	36	31	34	26	27	26	27	31
M92-1645 (SCN)	31	35	33	33	26	28	24	29	30
M92-1708 (SCN)	33	36	35	36	26	25	26	30	31
ORC 9404	30	31	28	33	23	26	26	30	32
SD(M)91-1763	30	33	30	32	25	23	23	29	30
SD(M)92-1357	29	32	28	32	25	21	25	26	26
SD(M)93-60	31	36	32	34	28	25	20	26	31
SD(M)93-905	32	36	35	37	27	26	23	27	30
SD(M)93-986	33	37	35	36	29	31	27	26	31

UNIFORM TEST I, 1996

PLANT HEIGHT (inches)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	41	35	27	35	30	38
Lambert (0)	40	36	19	33	29	36
Marcus 95 (L)	36	34	24	29	30	36
Parker (I)	38	38	26	40	32	45
A92-525014 (BSR)	46	42	29	43	35	43
A94-572028	40	34	23	33	27	34
E93147	38	33	24	34	32	38
M89-936	40	42	24	40	32	43
M89-1665	44	33	25	36	27	38
M90-1279	39	41	28	33	35	42
M91-856	40	37	24	42	32	42
M91-947	40	40	28	41	34	45
M91-1087	36	35	26	36	31	38
M91-1137	36	40	27	40	33	42
M91-1185	43	37	22	36	34	35
M91-1195	44	37	25	39	31	40
M91-1416	39	33	24	36	29	39
M91-1590	34	37	24	37	25	37
M91-1644	37	38	24	38	29	37
M92-1645 (SCN)	44	34	23	36	25	35
M92-1708 (SCN)	41	37	27	39	29	41
ORC 9404	39	35	23	33	29	35
SD(M)91-1763	39	33	19	34	27	36
SD(M)92-1357	39	35	20	34	27	34
SD(M)93-60	37	38	26	38	31	37
SD(M)93-905	34	38	26	37	31	39
SD(M)93-986	36	37	26	40	32	38

UNIFORM TEST I, 1996

SEED QUALITY (score)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	1.3	1.0	1.0	1.0	1.5	1.5	1.0	1.3	1.3
Lambert (0)	1.7	2.0	1.0	2.0	1.0	1.5	1.5	3.0	2.3
Marcus 95 (L)	1.7	1.0	1.0	2.0	1.5	1.5	1.0	3.0	3.0
Parker (I)	1.6	1.0	1.0	2.0	1.0	1.5	1.5	2.3	2.0
A92-525014 (BSR)	1.3	1.0	1.0	1.0	1.0	1.0	1.5	1.7	1.7
A94-572028	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.3	1.7
E93147	1.7	2.0	2.0	1.0	1.5	1.0	1.5	2.0	3.0
M89-936	1.5	1.0	1.0	1.0	1.0	2.0	1.0	1.7	2.0
M89-1665	1.4	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.3
M90-1279	1.5	2.0	2.0	1.0	1.5	1.0	1.5	1.3	1.3
M91-856	1.4	1.0	1.0	1.0	1.0	1.5	1.0	1.3	1.3
M91-947	1.3	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.3
M91-1087	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
M91-1137	1.4	2.0	1.0	1.0	1.5	1.0	1.0	1.3	1.3
M91-1185	1.5	1.0	1.0	1.0	1.5	1.5	1.0	2.0	1.7
M91-1195	1.6	2.0	2.0	1.0	1.0	1.0	1.5	1.3	1.3
M91-1416	1.4	1.0	1.0	1.0	1.0	1.0	1.5	1.3	1.3
M91-1590	1.3	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.3
M91-1644	1.4	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.3
M92-1645 (SCN)	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.7	1.3
M92-1708 (SCN)	1.4	1.0	1.0	1.0	1.5	2.0	1.0	1.3	1.7
ORC 9404	1.5	2.0	1.0	1.0	1.0	1.0	1.0	1.7	1.7
SD(M)91-1763	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.7	1.3
SD(M)92-1357	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.7
SD(M)93-60	1.8	2.0	2.0	1.0	1.0	1.5	1.0	2.0	2.0
SD(M)93-905	1.4	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.7
SD(M)93-986	1.6	1.0	1.0	1.0	1.0	1.5	1.0	1.3	2.0

UNIFORM TEST I, 1996

SEED QUALITY (score)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	1.0	1.7	1.6	1.5	2.0	1.0
Lambert (0)	1.3	1.0	1.7	2.0	1.0	2.0
Marcus 95 (L)	1.3	1.0	2.2	2.0	1.0	2.0
Parker (I)	1.0	1.5	1.9	2.0	2.0	2.0
A92-525014 (BSR)	1.3	1.3	1.0	1.5	1.0	2.0
A94-572028	1.3	1.0	1.2	1.5	1.0	1.0
E93147	1.7	1.0	2.2	2.5	1.0	2.0
M89-936	1.7	2.0	1.7	1.5	2.0	2.0
M89-1665	1.3	1.7	1.2	2.0	2.0	2.0
M90-1279	1.3	1.3	1.6	1.5	2.0	2.0
M91-856	1.3	1.3	1.4	2.0	2.0	2.0
M91-947	2.0	1.3	1.7	2.0	2.0	1.0
M91-1087	1.3	1.0	1.6	2.0	2.0	1.0
M91-1137	1.7	1.0	1.9	2.0	1.0	2.0
M91-1185	1.0	2.0	2.1	2.0	1.0	2.0
M91-1195	1.3	1.7	2.8	2.0	2.0	2.0
M91-1416	1.3	1.3	2.4	2.0	2.0	2.0
M91-1590	1.0	1.0	1.4	2.0	2.0	2.0
M91-1644	1.0	1.0	2.4	2.0	2.0	2.0
M92-1645 (SCN)	1.7	1.0	2.5	2.0	2.0	2.0
M92-1708 (SCN)	1.0	1.0	1.1	2.0	3.0	1.0
ORC 9404	1.7	1.3	1.8	2.0	2.0	2.0
SD(M)91-1763	1.0	1.0	2.8	2.0	2.0	2.0
SD(M)92-1357	1.0	1.0	2.1	2.0	2.0	1.0
SD(M)93-60	1.7	1.3	2.4	2.0	3.0	2.0
SD(M)93-905	1.0	1.3	1.9	2.0	2.0	2.0
SD(M)93-986	1.3	1.5	2.6	2.5	2.0	2.0

UNIFORM TEST I, 1996

SEED SIZE (g/100)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca-hontas IA	Lafay-ette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Freeborn (SCN)	17.9	19.1	16.0	18.1	16.1	20.0	15.2	18.0	17.3
Lambert (0)	16.7	17.0	16.1	17.4	14.8	20.4	16.9	17.7	17.6
Marcus 95 (L)	17.3	17.8	17.0	17.6	15.6	21.3	14.7	17.5	15.6
Parker (I)	17.3	17.7	16.0	18.3	15.2	19.1	14.6	18.7	17.6
A92-525014 (BSR)	16.4	17.4	16.6	16.0	14.1	17.2	13.2	17.5	17.1
A94-572028	18.3	18.7	17.4	18.4	18.0	19.1	15.9	18.4	18.1
E93147	17.8	18.4	17.0	17.7	17.7	16.8	16.9	18.4	17.3
M89-936	17.4	17.5	16.5	17.5	15.5	18.4	16.6	18.3	17.3
M89-1665	14.0	15.0	13.7	13.8	12.8	14.9	12.6	15.0	15.0
M90-1279	19.5	19.6	19.4	20.1	17.8	18.7	18.1	21.0	20.0
M91-856	16.1	16.4	15.8	16.9	15.0	16.9	14.2	17.4	16.0
M91-947	17.3	17.0	16.8	17.8	17.1	15.3	16.9	18.5	17.6
M91-1087	19.0	19.2	19.0	19.2	18.0	20.3	15.2	20.0	19.5
M91-1137	15.6	16.8	16.0	15.8	15.9	15.9	13.9	16.4	14.7
M91-1185	19.9	19.8	19.4	20.2	17.0	19.3	19.4	21.6	20.8
M91-1195	19.4	19.2	19.0	20.0	17.4	21.6	17.6	21.3	20.9
M91-1416	16.2	15.2	16.0	15.8	13.8	18.9	14.6	17.6	16.7
M91-1590	18.4	20.0	18.8	18.5	17.2	20.2	15.8	18.7	16.9
M91-1644	15.6	14.8	15.2	15.3	13.4	15.1	16.2	16.6	16.6
M92-1645 (SCN)	16.2	16.7	16.2	17.0	15.5	17.1	17.3	16.3	15.3
M92-1708 (SCN)	20.2	20.8	19.1	20.0	21.1	22.1	17.8	20.8	20.9
ORC 9404	18.8	21.3	19.2	19.8	16.2	17.3	17.1	19.7	18.6
SD(M)91-1763	16.3	18.2	16.4	16.0	15.4	16.0	15.8	16.6	16.6
SD(M)92-1357	17.3	17.6	17.4	17.4	16.2	18.5	17.9	18.9	17.0
SD(M)93-60	21.5	21.8	21.0	21.2	17.6	24.4	21.4	23.0	22.7
SD(M)93-905	17.5	17.9	17.8	17.4	16.1	21.3	15.6	16.7	16.9
SD(M)93-986	21.0	22.1	21.0	20.8	19.7	24.9	18.5	21.9	20.9

UNIFORM TEST I, 1996

SEED SIZE (g/100)

Strain	Harting-ton NE	Ord NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD
Freeborn (SCN)	22.7	17.0	18.4	18.6	16.0	18.1
Lambert (0)	19.6	15.1	15.9	15.6	15.0	14.8
Marcus 95 (L)	20.7	17.3	17.7	17.1	16.0	16.3
Parker (I)	21.0	16.0	18.8	15.8	17.0	16.5
A92-525014 (BSR)	20.0	16.6	16.2	17.5	15.0	15.5
A94-572028	23.0	17.8	17.0	17.8	18.0	17.9
E93147	21.7	18.3	15.7	19.3	16.0	17.8
M89-936	21.3	16.4	17.4	16.4	17.0	16.9
M89-1665	17.2	13.9	13.5	14.2	12.0	12.3
M90-1279	24.3	18.7	17.4	20.1	19.0	18.2
M91-856	19.8	16.3	14.9	16.2	14.0	15.5
M91-947	21.7	15.1	16.4	18.8	16.0	17.2
M91-1087	22.2	19.3	18.5	18.7	18.0	19.2
M91-1137	19.4	16.8	14.4	15.2	13.0	14.5
M91-1185	23.9	20.9	18.1	20.3	19.0	18.7
M91-1195	22.4	18.0	17.9	18.2	18.0	19.4
M91-1416	19.4	15.1	15.2	15.9	15.0	16.9
M91-1590	21.6	18.7	16.7	20.6	16.0	18.2
M91-1644	19.2	14.6	15.1	16.2	14.0	15.7
M92-1645 (SCN)	18.9	15.2	15.2	15.8	14.0	15.8
M92-1708 (SCN)	23.3	19.3	19.3	20.9	17.0	19.8
ORC 9404	22.9	18.7	17.4	19.2	17.0	18.5
SD(M)91-1763	20.1	15.5	14.8	16.4	15.0	15.7
SD(M)92-1357	20.4	15.7	16.1	15.9	16.0	17.4
SD(M)93-60	26.3	19.8	20.1	21.4	19.0	20.7
SD(M)93-905	20.5	16.7	17.8	17.1	16.0	16.6
SD(M)93-986	23.9	20.2	18.5	22.4	19.0	20.5

UNIFORM TEST I, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Kanawha IA	Ingham Co. MI	Lamberton MN	London Ont.	Brookings SD
Freeborn (SCN)	43.2	42.9	43.1	43.6	43.5	42.8
Lambert (0)	43.4	41.6	45.1	44.0	45.6	40.5
Marcus 95 (L)	42.1	40.7	44.0	42.4	41.9	41.5
Parker (I)	41.8	41.0	42.5	42.0	42.0	41.3
A92-525014 (BSR	41.8	41.3	42.3	42.2	42.3	40.7
A94-572028	42.4	40.8	44.1	43.1	43.5	40.7
E93147	41.3	39.3	42.2	43.1	42.3	39.8
M89-936	43.1	41.6	44.5	43.0	43.8	42.5
M89-1665	42.2	41.7	43.1	42.9	43.7	39.6
M90-1279	43.1	42.0	43.7	43.4	44.1	42.5
M91-856	42.4	41.3	43.2	42.7	44.1	40.9
M91-947	42.6	41.1	44.1	42.6	43.6	41.6
M91-1087	44.5	43.3	45.2	45.0	45.4	43.4
M91-1137	42.7	41.6	42.9	42.8	45.0	41.2
M91-1185	43.8	42.2	44.2	44.6	45.9	41.9
M91-1195	44.1	42.3	45.0	43.9	46.7	42.7
M91-1416	42.4	41.9	44.4	42.2	41.7	41.9
M91-1590	44.6	43.7	44.8	44.9	46.1	43.4
M91-1644	41.9	40.5	43.9	41.2	43.2	40.7
M92-1645 (SCN)	42.9	42.2	43.2	42.7	44.1	42.2
M92-1708 (SCN)	44.4	42.9	45.0	45.1	44.8	44.4
ORC 9404	42.2	41.4	43.5	42.1	43.3	40.9
SD(M)91-1763	43.0	41.9	44.6	42.4	45.6	40.7
SD(M)92-1357	41.9	39.7	42.7	42.4	43.9	40.6
SD(M)93-60	44.0	43.1	45.3	43.9	45.2	42.7
SD(M)93-905	41.5	40.4	42.3	41.8	43.1	39.7
SD(M)93-986	43.0	42.4	44.9	42.9	43.5	41.5

UNIFORM TEST I, 1996

OIL (%)

Strain	Mean 5 Tests	Kanawha IA	Ingham Co. MI	Lamberton MN	London Ont.	Brookings SD
Freeborn (SCN)	20.3	20.4	20.5	20.8	19.8	20.2
Lambert (0)	20.7	20.6	19.9	21.8	19.7	21.6
Marcus 95 (L)	20.7	20.7	20.1	21.4	21.0	20.2
Parker (I)	20.6	20.3	20.9	21.6	19.9	20.3
A92-525014 (BSR	20.1	20.2	19.7	21.0	19.9	19.7
A94-572028	21.1	21.2	20.9	21.6	20.7	20.9
E93147	20.6	21.1	20.5	21.6	19.6	20.2
M89-936	19.9	20.0	19.5	20.7	19.6	19.7
M89-1665	20.3	20.7	20.6	20.1	19.5	20.5
M90-1279	20.3	20.2	20.7	20.9	20.0	19.7
M91-856	19.7	20.0	19.3	21.0	18.7	19.5
M91-947	20.4	20.7	19.8	20.9	20.1	20.5
M91-1087	19.4	19.3	19.2	19.7	18.9	20.0
M91-1137	20.4	20.6	19.8	21.0	19.5	21.0
M91-1185	19.9	20.3	20.3	19.9	18.6	20.3
M91-1195	20.0	20.5	19.8	20.9	18.8	20.1
M91-1416	20.0	20.1	19.7	20.0	19.7	20.6
M91-1590	19.5	20.0	19.6	20.0	18.6	19.5
M91-1644	20.9	20.9	20.2	22.0	20.4	21.2
M92-1645 (SCN)	20.7	20.6	21.0	21.3	20.5	20.3
M92-1708 (SCN)	19.4	19.4	19.4	19.6	19.4	19.0
ORC 9404	20.1	20.6	19.7	20.9	19.0	20.3
SD(M)91-1763	20.2	20.6	20.0	21.0	18.6	20.9
SD(M)92-1357	21.2	20.7	21.0	21.9	20.6	21.6
SD(M)93-60	19.7	19.7	19.2	20.3	19.3	20.2
SD(M)93-905	21.1	21.3	20.9	21.5	20.3	21.4
SD(M)93-986	20.0	19.9	19.5	20.2	19.7	20.5

PRELIMINARY TEST I, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	A92-525014 (BSR)	IA2008 x Kenwood	F5	BSR
2.	Lambert (0)	M75-274 x M76-151	F5	Rps1
3.	Marcus 95 (L)	[Marcus(5) x Elgin 87] x [Marcus(5) x Preston BC-11-1]	BC4F2	Rps1-k, Rps6
4.	Parker (I)	A79-136012 x Dawson	F5	Rps1
5.	A95-481001	Parker x HS88-4909	F5	
6.	A95-481002	Parker x Pioneer P9381	F5	
7.	A95-481003	Marcus x Northrup King S20-20	F5	
8.	A95-481004	Marcus x AgriPro AP2535	F5	
9.	A95-481019	Northrup King S20-20 x Pioneer P9241	F5	
10.	A95-482001	Parker x Archer	F5	
11.	A95-482003	Northrup King S20-20 x Archer	F5	BSR
12.	A95-482006	HS88-4909 x Archer	F5	
13.	A95-482012	AgriPro AP2535 x IA2008	F5	
14.	A95-482025	Marcus x A89-144036	F5	BSR
15.	A95-482027	Marcus x A89-144036	F5	
16.	A95-482031	Pioneer P9273 x A89-144036	F5	BSR
17.	A95-483007	Jack x Marcus	F5	
18.	A95-485030	(Parker x AC89-14502) x Jack	F5	Fe Chlor.
19.	E94080	Northrup King S18-84 x Kenwood	F4	
20.	E94489	E90009 x Archer	F4	
21.	M92-64	Kato x PI 467.313	F5	Rps1
22.	M92-281	Sturdy x A17	F5	Rps1
23.	M92-538	M84-855 x Bert	F4	Rps1
24.	M92-586	Pioneer P9061 x Ozzie	F5	Rps1
25.	M92-713	Kasota x Agassiz	F5	Rps1-c
26.	M92-831	M85-564 x Kato	F5	Rps1
27.	M92-836	M85-564 x Kato	F5	Rps1
28.	M92-985	Sturdy x Maple Ridge	F4	Rps1
29.	M92-994	Sturdy x Maple Ridge	F4	Rps1
30.	M92-1031	M85-173(P) x Kato	F4	Rps1
31.	M92-1375	McCall x M86-830	F5	Rps1
32.	M92-1445	M84-1034 x Sturdy	F5	Rps1-c
33.	M92-1449	M84-1034 x Sturdy	F5	Rps1-c
34.	M92-1456	Sturdy x M82-559	F5	Rps1-c
35.	M92-1482	M84-1034 x Archer	F5	Rps1-k+6+1-c+3 ?
36.	ORC 9501	RCAT Tabby x Northrup King S26-06	F5	
37.	ORC 9502	ORC8802 x RCAT Angora	F5	Dt2
38.	ORC 9505	Dominator x Pioneer P9272	F5	
39.	SD93-472	Parker x Harcor	F5	
40.	SD93-490	Glenwood x Jack	F5	
41.	SD93-574	Kato x Archer	F5	
42.	SD93-1037	Parker x Sibley	F5	
43.	SD93-1387	Archer x Hodgson 78	F5	
44.	SD93-1534	Archer x Glenwood	F5	
45.	SD(M)93-3439	Parker x Archer	F5	
46.	SD(M)93-3524	Parker x Archer	F5	
47.	SD(ND)93-5937	Bert x Pioneer P9061	F5	

PRELIMINARY TEST I, 1996

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Chlorosis Score Lamberton	Shattering Score Manhattan
A92-525014 (BSR)	PTBSYBlI	3.5	3.3	2
Lambert (O)	PGBSYBfI	3.2	4.7	2
Marcus 95 (L)	WTTDYBfI	3.9	4.3	1
Parker (I)	WGBDYBfI	3.5	4.3	2
A95-481001	PGBDYIbI	3.6	3.7	1
A95-481002	WGTDYBfI	3.8	5.0	1
A95-481003	PTBDYBrI	3.4	4.0	1
A95-481004	P+WTB+TDYHI	3.4	5.0	1
A95-481019	PGBDYYI	3.4	4.3	1
A95-482001	WGBIYBfI	3.6	4.3	2
A95-482003	PGBDYBfI	3.6	3.0	2
A95-482006	PGBSYIbI	3.4	5.0	2
A95-482012	PGTDYIbI	3.2	4.0	2
A95-482025	PG+TBDYBfI	3.9	4.0	2
A95-482027	WTBSYHI	3.5	3.7	1
A95-482031	PGBDYIbI	3.1	4.7	2
A95-483007	WTBDYBrSD	3.8	3.7	1
A95-485030	WGBDYBfI	3.0	3.7	1
E94080	P+WGBDYBfI	3.8	3.3	1
E94489	PTTIYBlI	4.0	4.0	1
M92-64	PTBIYBlI	3.1	4.3	2
M92-281	PGBDYIbI	3.0	4.0	2
M92-538	WGBSYYI	3.2	4.7	1
M92-586	PGBIYHI	3.4	3.3	1
M92-713	WGBDYBfI	3.5	3.0	1
M92-831	PTBIYBlI	3.2	4.3	3
M92-836	WTBIYBlI	3.5	4.0	2
M92-985	PGBDYIbI	2.8	3.7	2
M92-994	PG+TBIYHI	3.5	4.3	1
M92-1031	P+WTBDYBrI	3.0	4.0	2
M92-1375	WGBSYBfI	3.1	3.0	1
M92-1445	WGBDYBfI	2.9	4.0	2
M92-1449	WGTIYBfI	3.1	2.7	1
M92-1456	PGB+TDYBfI	3.0	3.3	1
M92-1482	P+WGTDYIbI	3.1	4.0	1
ORC 9501	PGBSYYI	3.4	3.7	2
ORC 9502	PGBDYYSD	3.8	5.0	1
ORC 9505	PTBDYYI	2.8	3.7	1
SD93-472	PGBSYBfI	3.6	4.3	1
SD93-490	WGBDYBfI	3.0	4.0	1
SD93-574	PTB+TIYBlI	3.1	4.0	3
SD93-1037	WGBDYYI	3.8	4.3	2
SD93-1387	PGTDYIbI	3.0	4.0	1
SD93-1534	PGTIYBfI	3.0	3.0	2
SD(M)93-3439	WGTDYBfI	3.4	3.7	1
SD(M)93-3524	WGTDYBfI	4.0	4.0	1
SD(ND)93-5937	PGBDYYI	3.6	4.3	1

PRELIMINARY TEST I, 1996

DISEASE DATA

Strain	BSR Resistance % Incid.	BSR Resistance % Sev.	PR Lafayette Race 7	Hard Seed Lafayette %	PS Lafayette a %	PSB n %
A92-525014 (BSR)			H	8	36	0
Lambert (0)			S	52	14	4
Marcus 95 (L)			R	26	32	2
Parker (I)			S	24	20	4
A95-481001	75	34	S	40	20	0
A95-481002	50	40	H	10	28	6
A95-481003	90	29	R	8	54	6
A95-481004	55	38	S	4	46	4
A95-481019	80	35	S	6	52	10
A95-482001	10	5	R	14	34	2
A95-482003	65	33	R	4	42	2
A95-482006	75	28	R	22	16	4
A95-482012	55	42	H	6	32	0
A95-482025	0	0	S	6	22	0
A95-482027	70	29	S	12	26	0
A95-482031	40	37	S	0	44	0
A95-483007	10	13	H	0	56	2
A95-485030	20	18	H	16	24	0
E94080			H	64	16	4
E94489			S	22	44	2
M92-64			S	28	30	6
M92-281			S	14	36	4
M92-538			H	40	10	2
M92-586			S	34	32	4
M92-713			R	10	20	8
M92-831			R	24	38	2
M92-836			R	60	10	2
M92-985			R	18	38	8
M92-994			H	2	36	10
M92-1031			H	18	30	4
M92-1375			R	32	26	0
M92-1445			R	6	62	8
M92-1449			R	34	12	0
M92-1456			R	0	10	6
M92-1482			R	0	4	0
ORC 9501			S	0	14	2
ORC 9502			R	20	0	0
ORC 9505			R	0	12	2
SD93-472			H	14	12	0
SD93-490			H	22	28	0
SD93-574			S	18	8	2
SD93-1037			S	34	10	2
SD93-1387			S	4	2	4
SD93-1534			R	14	28	2
SD(M)93-3439			R	18	36	6
SD(M)93-3524			R	14	22	4
SD(ND)93-5937			S	10	36	6

PRELIMINARY TEST I, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 5 Date	Lodging 6 Score	Plant Height 6 In.	Seed Quality 6 Score	Seed Size 6 g/100	Composition Protein 4 %	 Oil 4 %
A92-525014 (BSR	48.8	14	1.2	1.7	35	1.5	17.5	42.6	20.1
Lambert (0)	41.5	46	-3.4	1.4	29	1.8	17.2	43.9	21.0
Marcus 95 (L)	50.2	8	5.0	1.5	31	1.8	17.2	41.7	21.2
Parker (I)	45.4	34	09/26	2.1	33	1.7	17.6	42.8	20.6
A95-481001	45.4	34	3.0	1.7	32	1.4	15.5	43.1	19.9
A95-481002	51.1	4	4.8	2.0	32	1.3	18.3	42.2	20.4
A95-481003	51.5	2	6.6	2.1	37	1.7	16.0	44.0	18.9
A95-481004	51.8	1	5.6	1.6	34	1.3	17.6	43.4	20.5
A95-481019	48.2	20	6.8	1.7	32	1.4	16.8	41.9	20.0
A95-482001	46.8	26	6.4	2.0	35	1.6	16.2	42.3	20.2
A95-482003	48.2	20	1.6	1.4	34	1.8	16.6	42.5	20.2
A95-482006	47.9	23	5.6	1.8	36	1.3	17.5	42.1	20.0
A95-482012	48.2	20	7.6	1.7	37	1.3	15.5	41.8	20.3
A95-482025	49.3	12	5.0	1.7	34	1.8	17.1	43.0	19.8
A95-482027	48.5	17	3.8	2.1	33	1.5	17.7	44.0	19.6
A95-482031	49.4	11	5.4	1.3	32	1.5	16.6	42.7	20.7
A95-483007	46.0	30	4.0	1.8	34	1.5	17.1	43.6	19.8
A95-485030	47.2	24	3.6	1.8	35	1.8	18.3	42.6	20.1
E94080	48.8	14	4.8	1.5	33	1.3	17.3	43.0	20.8
E94489	51.2	3	5.6	1.2	35	1.2	16.5	42.5	19.8
M92-64	45.1	37	-3.0	1.5	31	1.3	20.9	44.9	19.6
M92-281	45.6	32	-3.8	1.7	31	1.7	16.8	43.4	19.7
M92-538	49.1	13	-1.4	1.5	34	1.4	18.3	41.8	20.8
M92-586	42.1	45	-1.4	1.6	31	1.3	16.5	43.7	20.1
M92-713	42.4	44	4.4	1.4	33	1.3	15.0	44.0	19.7
M92-831	43.4	41	-3.4	1.8	31	1.3	19.2	44.4	19.2
M92-836	43.0	42	-4.4	1.5	30	1.4	18.8	45.3	19.8
M92-985	45.6	32	2.0	1.4	34	1.4	19.7	43.5	20.1
M92-994	48.3	19	4.6	1.7	35	1.6	18.3	43.9	19.3
M92-1031	40.6	47	-4.8	1.4	30	1.8	18.0	44.1	19.5
M92-1375	50.7	6	6.6	1.7	35	1.4	18.0	42.1	20.1
M92-1445	45.4	34	3.0	1.5	31	1.2	18.5	43.3	19.9
M92-1449	48.5	17	5.8	1.7	34	1.3	16.4	43.0	20.0
M92-1456	44.6	40	5.0	1.5	32	1.3	18.1	43.5	19.3
M92-1482	51.1	4	4.4	1.7	34	1.2	17.7	43.9	19.7
ORC 9501	46.8	26	3.4	1.7	33	1.7	17.2	42.5	20.0
ORC 9502	49.5	10	5.2	1.3	29	1.3	19.2	42.6	20.3
ORC 9505	50.4	7	8.4	1.3	34	2.2	16.0	42.9	19.8
SD93-472	45.1	37	3.8	2.2	34	1.5	16.2	43.5	19.0
SD93-490	46.9	25	4.2	1.9	33	1.5	16.1	43.3	19.7
SD93-574	45.1	37	2.4	2.1	33	1.3	17.9	44.2	20.0
SD93-1037	46.2	28	-1.6	1.9	32	1.3	20.0	44.1	20.2
SD93-1387	42.8	43	1.2	1.4	28	1.0	15.2	44.9	18.6
SD93-1534	45.8	31	4.6	1.3	32	1.2	17.0	43.4	19.5
SD(M)93-3439	49.8	9	4.4	1.6	33	1.5	16.0	42.5	20.0
SD(M)93-3524	48.8	14	1.0	1.6	32	1.7	18.0	41.2	20.7
SD(ND)93-5937	46.2	28	-1.8	1.7	32	1.4	14.7	41.5	20.7

132.0 Days After Planting

PRELIMINARY TEST I, 1996

YIELD (bu/a)

Strain	Mean 6 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	48.8	55.1	53.6	30.4	55.5	46.9	51.1
Lambert (0)	41.5	48.6	44.2	30.7	46.7	37.7	41.2
Marcus 95 (L)	50.2	57.0	57.2	43.1	59.4	38.7	45.6
Parker (I)	45.4	53.8	54.5	29.8	48.5	39.3	46.3
A95-481001	45.4	58.9	46.2	26.9	53.9	37.0	49.3
A95-481002	51.1	60.5	56.4	46.0	55.0	38.9	49.7
A95-481003	51.5	58.7	59.8	40.1	58.1	43.9	48.5
A95-481004	51.8	63.2	58.7	40.2	60.1	38.4	50.3
A95-481019	48.2	60.2	53.0	33.3	59.4	35.7	47.7
A95-482001	46.8	57.3	53.4	30.6	56.1	38.3	45.3
A95-482003	48.2	57.1	51.5	40.7	52.7	39.5	47.7
A95-482006	47.9	60.9	48.7	34.3	56.6	40.5	46.1
A95-482012	48.2	61.6	46.0	38.0	55.7	43.4	44.4
A95-482025	49.3	62.0	60.9	30.4	57.6	37.7	47.1
A95-482027	48.5	61.5	58.7	31.2	50.9	40.8	47.7
A95-482031	49.4	62.5	56.9	32.1	57.7	37.8	49.6
A95-483007	46.0	60.2	59.3	38.7	54.8	18.3	44.4
A95-485030	47.2	59.5	54.2	21.3	58.2	44.1	46.0
E94080	48.8	61.5	48.6	41.0	57.6	39.1	45.2
E94489	51.2	61.2	58.9	37.6	61.1	40.6	48.0
M92-64	45.1	53.5	44.9	36.1	49.8	44.7	41.3
M92-281	45.6	54.7	49.2	31.5	54.7	40.8	42.5
M92-538	49.1	61.4	50.0	32.8	58.5	46.9	44.9
M92-586	42.1	50.4	41.9	25.9	50.8	42.1	41.6
M92-713	42.4	53.9	49.2	23.1	50.9	37.0	40.2
M92-831	43.4	54.9	42.8	33.4	45.6	40.4	43.2
M92-836	43.0	53.6	46.4	28.7	48.9	39.2	40.9
M92-985	45.6	60.6	44.4	32.7	52.2	41.6	42.2
M92-994	48.3	60.7	56.0	33.3	52.4	41.2	45.9
M92-1031	40.6	48.8	44.5	25.8	49.0	32.8	42.6
M92-1375	50.7	61.9	50.5	40.6	57.4	43.8	49.7
M92-1445	45.4	57.0	52.9	27.0	52.8	41.0	41.9
M92-1449	48.5	61.0	55.1	36.4	57.1	38.2	43.3
M92-1456	44.6	57.3	50.7	20.5	52.6	41.4	45.3
M92-1482	51.1	59.6	59.0	37.4	58.5	44.7	47.1
ORC 9501	46.8	55.4	49.9	33.1	50.3	43.1	49.1
ORC 9502	49.5	60.2	52.8	40.1	56.9	38.3	48.6
ORC 9505	50.4	60.0	53.9	37.5	61.0	42.1	47.9
SD93-472	45.1	56.8	48.6	34.3	45.4	40.8	44.4
SD93-490	46.9	57.4	50.3	33.8	60.7	39.4	39.8
SD93-574	45.1	49.6	53.5	35.7	45.7	41.4	44.5
SD93-1037	46.2	57.8	51.4	30.8	53.1	40.0	44.3
SD93-1387	42.8	57.4	42.9	24.2	55.5	36.2	40.5
SD93-1534	45.8	53.9	46.5	39.4	55.5	37.8	41.9
SD(M)93-3439	49.8	59.8	56.5	34.3	60.6	39.6	47.9
SD(M)93-3524	48.8	60.0	48.6	36.7	56.1	42.9	48.2
SD(ND)93-5937	46.2	56.4	45.3	33.4	50.2	45.7	46.2
C.V. (%)		4.9	8.5	19.3	6.6	7.4	4.7
L.S.D. (5%)		5.7	8.8	14.0	7.2	8.0	4.3
Row Sp. (In.)		27	27	30	10	10	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST I, 1996

YIELD RANK

Strain	Yield Rank	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	14	36	17	37	23	2	1
Lambert (0)	46	47	44	34	44	41	43
Marcus 95 (L)	8	31	8	2	6	34	24
Parker (I)	34	41	14	38	43	30	19
A95-481001	34	23	38	41	28	43	6
A95-481002	4	14	11	1	21	33	3
A95-481003	2	24	2	7	11	8	9
A95-481004	1	1	6	6	5	35	2
A95-481019	20	15	20	25	6	46	15
A95-482001	26	28	19	35	19	36	26
A95-482003	20	30	23	4	31	28	14
A95-482006	23	11	32	19	18	24	21
A95-482012	20	5	39	11	22	10	31
A95-482025	12	3	1	36	13	41	17
A95-482027	17	6	6	32	35	20	16
A95-482031	11	2	9	30	12	39	5
A95-483007	30	15	3	10	26	1	32
A95-485030	24	22	15	46	10	7	22
E94080	14	6	33	3	13	32	27
E94489	3	9	5	12	1	23	11
M92-64	37	43	41	17	40	5	42
M92-281	32	38	30	31	27	20	37
M92-538	13	8	28	28	8	2	28
M92-586	45	44	47	42	37	13	41
M92-713	44	39	30	45	35	43	46
M92-831	41	37	46	23	46	25	35
M92-836	42	42	37	39	42	31	44
M92-985	32	13	43	29	34	15	38
M92-994	19	12	12	25	33	18	23
M92-1031	47	46	42	43	41	47	36
M92-1375	6	4	26	5	15	8	4
M92-1445	34	31	21	40	30	19	39
M92-1449	17	10	13	16	16	38	34
M92-1456	40	28	25	47	32	16	25
M92-1482	4	21	4	14	8	5	18
ORC 9501	26	35	29	27	38	11	7
ORC 9502	10	15	22	7	17	36	8
ORC 9505	7	18	16	13	2	13	12
SD93-472	37	33	33	19	47	22	30
SD93-490	25	26	27	22	3	29	47
SD93-574	37	45	18	18	45	16	29
SD93-1037	28	25	24	33	29	26	33
SD93-1387	43	26	45	44	23	45	45
SD93-1534	31	39	36	9	23	39	40
SD(M)93-3439	9	20	10	19	4	27	13
SD(M)93-3524	14	18	33	15	19	12	10
SD(ND)93-5937	28	34	40	23	39	4	20

PRELIMINARY TEST I, 1996

MATURITY (date)

Strain	Mean 5 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	1.2	2		-6	7	4	-1
Lambert (0)	-3.4	-9		8	-4	-5	-7
Marcus 95 (L)	5.0	4		4	9	5	3
Parker (I)	09/26	09/17		09/12	09/25	09/26	10/24
A95-481001	3.0	4		2	5	2	2
A95-481002	4.8	4		8	5	3	4
A95-481003	6.6	8		3	12	6	4
A95-481004	5.6	6		4	9	4	5
A95-481019	6.8	8		6	11	5	4
A95-482001	6.4	9		1	12	6	4
A95-482003	1.6	2		1	5	-1	1
A95-482006	5.6	6		4	10	3	5
A95-482012	7.6	8		7	11	7	5
A95-482025	5.0	6		4	9	3	3
A95-482027	3.8	6		0	9	3	1
A95-482031	5.4	6		6	9	3	3
A95-483007	4.0	5		3	6	4	2
A95-485030	3.6	5		-4	8	6	3
E94080	4.8	4		4	9	5	2
E94489	5.6	6		5	9	6	2
M92-64	-3.0	-4		-2	-2	-3	-4
M92-281	-3.8	-5		-3	-3	-4	-4
M92-538	-1.4	-1		-5	-1	0	0
M92-586	-1.4	-3		-1	0	-1	-2
M92-713	4.4	4		3	9	3	3
M92-831	-3.4	-4		-4	-1	-3	-5
M92-836	-4.4	-6		-6	-1	-3	-6
M92-985	2.0	2		2	4	1	1
M92-994	4.6	4		4	7	4	4
M92-1031	-4.8	-5		-7	-1	-4	-7
M92-1375	6.6	6		6	10	6	5
M92-1445	3.0	2		2	4	4	3
M92-1449	5.8	5		6	9	6	3
M92-1456	5.0	6		3	9	5	2
M92-1482	4.4	4		5	8	2	3
ORC 9501	3.4	0		5	9	2	1
ORC 9502	5.2	5		6	8	2	5
ORC 9505	8.4	8		9	13	7	5
SD93-472	3.8	5		3	7	2	2
SD93-490	4.2	4		4	8	4	1
SD93-574	2.4	2		3	7	0	0
SD93-1037	-1.6	-3		-2	-1	-2	0
SD93-1387	1.2	-2		2	2	3	1
SD93-1534	4.6	4		4	10	4	1
SD(M)93-3439	4.4	5		4	9	3	1
SD(M)93-3524	1.0	3		1	1	0	0
SD(ND)93-5937	-1.8	-2		-3	-1	-2	-1
Date Planted	05/17	05/06		05/16	05/21	05/30	05/16
Days to Mature	132.0	134		119	127	119	161

PRELIMINARY TEST I, 1996

LODGING (score)

Strain	Mean 6 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	1.7	1.6	1.7	1.0	2.5	1.5	2.0
Lambert (0)	1.4	1.2	1.1	1.0	1.5	1.5	2.0
Marcus 95 (L)	1.5	1.3	1.2	1.0	2.0	1.5	2.0
Parker (I)	2.1	2.5	2.0	1.0	3.0	2.0	2.0
A95-481001	1.7	1.7	1.2	1.0	2.5	2.0	2.0
A95-481002	2.0	1.4	1.4	1.0	3.0	2.0	3.0
A95-481003	2.1	2.3	1.9	1.0	3.5	2.0	2.0
A95-481004	1.6	1.3	1.5	1.0	2.5	1.5	2.0
A95-481019	1.7	1.4	1.3	1.0	2.5	2.0	2.0
A95-482001	2.0	2.5	2.0	1.0	2.5	2.0	2.0
A95-482003	1.4	1.3	1.2	1.0	2.0	1.0	2.0
A95-482006	1.8	1.4	1.6	1.0	2.5	2.0	2.0
A95-482012	1.7	1.4	1.5	1.0	2.5	2.0	2.0
A95-482025	1.7	1.4	1.8	1.0	2.0	2.0	2.0
A95-482027	2.1	1.8	1.6	1.0	3.0	2.0	3.0
A95-482031	1.3	1.1	1.1	1.0	1.5	1.0	2.0
A95-483007	1.8	1.7	1.7	1.0	2.5	2.0	2.0
A95-485030	1.8	1.7	1.9	1.0	2.0	2.0	2.0
E94080	1.5	1.3	1.1	1.0	1.5	2.0	2.0
E94489	1.2	1.1	1.0	1.0	1.0	1.0	2.0
M92-64	1.5	1.2	1.1	1.0	2.0	1.5	2.0
M92-281	1.7	1.3	1.2	1.0	2.5	2.0	2.0
M92-538	1.5	1.3	1.3	1.0	2.0	1.5	2.0
M92-586	1.6	1.3	1.1	1.0	2.0	2.0	2.0
M92-713	1.4	1.1	1.0	1.0	2.0	1.0	2.0
M92-831	1.8	1.6	1.1	1.5	2.5	2.0	2.0
M92-836	1.5	1.2	1.0	1.0	2.0	1.5	2.0
M92-985	1.4	1.2	1.3	1.0	2.0	2.0	1.0
M92-994	1.7	1.6	1.8	1.0	2.5	1.5	2.0
M92-1031	1.4	1.2	1.1	1.0	2.0	1.0	2.0
M92-1375	1.7	1.2	1.2	1.0	3.0	1.5	2.0
M92-1445	1.5	1.3	1.4	1.0	2.0	1.5	2.0
M92-1449	1.7	1.8	1.5	1.0	2.0	2.0	2.0
M92-1456	1.5	1.5	1.2	1.0	2.0	1.5	2.0
M92-1482	1.7	1.5	1.5	1.0	2.0	2.0	2.0
ORC 9501	1.7	1.5	1.8	1.0	2.5	1.5	2.0
ORC 9502	1.3	1.1	1.1	1.0	1.5	1.0	2.0
ORC 9505	1.3	1.1	1.0	1.0	1.5	1.0	2.0
SD93-472	2.2	2.6	1.8	1.0	3.5	2.0	2.0
SD93-490	1.9	1.7	1.9	1.0	2.5	2.0	2.0
SD93-574	2.1	2.3	2.0	1.5	3.0	2.0	2.0
SD93-1037	1.9	1.6	1.2	1.0	3.5	2.0	2.0
SD93-1387	1.4	1.2	1.0	1.0	1.5	1.5	2.0
SD93-1534	1.3	1.3	1.1	1.0	1.5	1.0	2.0
SD(M)93-3439	1.6	1.2	1.3	1.0	2.0	2.0	2.0
SD(M)93-3524	1.6	1.2	1.2	1.0	2.0	2.0	2.0
SD(ND)93-5937	1.7	1.3	1.1	1.0	2.5	2.0	2.0

PRELIMINARY TEST I, 1996

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	35	37	40	25	37	38	32
Lambert (0)	29	31	32	21	33	27	27
Marcus 95 (L)	31	32	36	26	36	33	20
Parker (I)	33	38	38	25	31	34	31
A95-481001	32	36	35	24	31	33	30
A95-481002	32	33	35	27	35	34	29
A95-481003	37	40	40	30	35	39	36
A95-481004	34	36	37	27	37	32	34
A95-481019	32	36	34	24	32	32	31
A95-482001	35	38	40	23	37	36	34
A95-482003	34	38	38	27	36	33	33
A95-482006	36	38	40	28	34	38	36
A95-482012	37	41	40	29	36	38	37
A95-482025	34	38	38	23	35	33	34
A95-482027	33	40	38	24	30	35	31
A95-482031	32	35	36	23	33	31	33
A95-483007	34	36	37	26	33	37	32
A95-485030	35	40	38	23	37	35	35
E94080	33	35	37	28	35	33	30
E94489	35	39	38	31	37	34	31
M92-64	31	34	34	24	32	31	30
M92-281	31	33	36	23	33	30	29
M92-538	34	36	38	25	33	34	36
M92-586	31	34	36	22	30	31	30
M92-713	33	38	36	22	33	35	31
M92-831	31	34	34	26	27	31	33
M92-836	30	32	32	20	31	32	33
M92-985	34	36	37	25	36	33	34
M92-994	35	38	39	26	32	37	35
M92-1031	30	34	32	22	30	30	30
M92-1375	35	39	38	28	36	36	34
M92-1445	31	35	36	21	29	33	31
M92-1449	34	36	38	26	33	35	33
M92-1456	32	37	38	21	31	34	32
M92-1482	34	37	40	25	35	35	32
ORC 9501	33	37	37	24	32	33	33
ORC 9502	29	30	32	23	29	27	30
ORC 9505	34	36	38	28	33	35	35
SD93-472	34	37	38	27	33	34	34
SD93-490	33	36	36	26	33	32	34
SD93-574	33	38	39	27	27	33	32
SD93-1037	32	36	39	24	30	31	33
SD93-1387	28	32	30	20	30	29	29
SD93-1534	32	35	36	27	34	32	30
SD(M)93-3439	33	36	38	24	38	32	32
SD(M)93-3524	32	33	36	26	34	32	30
SD(ND)93-5937	32	37	36	24	32	34	31

PRELIMINARY TEST I, 1996

SEED QUALITY (score)

Strain	Mean 6 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	1.5	1.0	1.0	1.5	1.5	1.0	3.0
Lambert (0)	1.8	1.0	2.0	1.5	3.0	1.5	2.0
Marcus 95 (L)	1.8	1.0	2.0	1.5	3.0	1.0	2.0
Parker (I)	1.7	1.0	1.0	2.0	3.0	1.0	2.0
A95-481001	1.4	1.0	1.0	1.0	3.0	1.5	1.0
A95-481002	1.3	1.0	1.0	1.0	2.0	1.0	2.0
A95-481003	1.7	2.0	1.0	1.5	2.5	1.0	2.0
A95-481004	1.3	1.0	1.0	1.5	2.0	1.0	1.0
A95-481019	1.4	1.0	1.0	2.0	1.5	1.0	2.0
A95-482001	1.6	2.0	2.0	1.0	1.5	1.0	2.0
A95-482003	1.8	1.0	2.0	1.5	2.0	1.0	3.0
A95-482006	1.3	2.0	1.0	1.0	1.5	1.5	1.0
A95-482012	1.3	1.0	1.0	1.5	1.5	1.0	2.0
A95-482025	1.8	2.0	2.0	1.5	2.0	1.5	2.0
A95-482027	1.5	1.0	2.0	1.0	2.0	1.0	2.0
A95-482031	1.5	1.0	2.0	1.0	2.0	1.0	2.0
A95-483007	1.5	1.0	1.0	1.5	2.0	1.5	2.0
A95-485030	1.8	2.0	2.0	1.0	2.5	1.5	2.0
E94080	1.3	1.0	1.0	1.5	1.5	1.0	2.0
E94489	1.2	1.0	1.0	1.0	1.5	1.5	1.0
M92-64	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M92-281	1.7	2.0	1.0	1.0	2.5	1.5	2.0
M92-538	1.4	1.0	1.0	1.5	1.5	1.5	2.0
M92-586	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M92-713	1.3	1.0	1.0	1.0	1.5	1.0	2.0
M92-831	1.3	1.0	1.0	1.0	2.5	1.5	1.0
M92-836	1.4	1.0	1.0	1.5	2.0	1.0	2.0
M92-985	1.4	1.0	1.0	1.5	1.5	1.5	2.0
M92-994	1.6	1.0	1.0	2.0	2.0	1.5	2.0
M92-1031	1.8	1.0	1.0	1.5	3.0	1.5	3.0
M92-1375	1.4	1.0	1.0	1.0	2.0	1.5	2.0
M92-1445	1.2	1.0	1.0	1.5	1.5	1.0	1.0
M92-1449	1.3	1.0	1.0	1.0	1.5	1.0	2.0
M92-1456	1.3	1.0	1.0	1.0	2.0	1.0	2.0
M92-1482	1.2	1.0	1.0	1.5	1.5	1.0	1.0
ORC 9501	1.7	2.0	1.0	1.5	2.0	1.5	2.0
ORC 9502	1.3	1.0	1.0	1.5	1.5	1.0	2.0
ORC 9505	2.2	2.0	2.0	2.0	2.5	1.5	3.0
SD93-472	1.5	2.0	1.0	1.0	2.0	1.0	2.0
SD93-490	1.5	2.0	1.0	1.0	1.5	1.5	2.0
SD93-574	1.3	1.0	1.0	1.0	1.5	1.5	2.0
SD93-1037	1.3	1.0	1.0	1.5	1.0	1.5	2.0
SD93-1387	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD93-1534	1.2	1.0	2.0	1.0	1.0	1.0	1.0
SD(M)93-3439	1.5	2.0	1.0	1.5	1.5	1.0	2.0
SD(M)93-3524	1.7	2.0	1.0	1.5	2.0	1.5	2.0
SD(ND)93-5937	1.4	1.0	1.0	2.0	1.5	1.0	2.0

PRELIMINARY TEST I, 1996

SEED SIZE (g/100)

Strain	Mean 6 Tests	Kanawha IA	Poca-hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
A92-525014 (BSR)	17.5	17.7	17.3	20.2	16.4	17.6	15.5
Lambert (0)	17.2	16.4	17.2	18.8	17.4	17.2	16.0
Marcus 95 (L)	17.2	18.3	18.2	16.8	17.9	16.7	15.5
Parker (I)	17.6	17.5	18.4	16.5	18.4	17.7	17.0
A95-481001	15.5	15.8	16.0	14.3	16.6	15.7	14.7
A95-481002	18.3	18.2	18.4	21.9	18.7	17.2	15.6
A95-481003	16.0	16.0	16.3	19.7	15.1	14.9	13.7
A95-481004	17.6	17.2	17.2	23.4	17.2	15.8	15.0
A95-481019	16.8	17.6	16.7	19.5	15.3	16.4	15.0
A95-482001	16.2	16.8	16.3	17.3	16.8	16.0	14.0
A95-482003	16.6	15.6	16.6	19.7	16.7	14.9	15.8
A95-482006	17.5	18.0	17.6	18.2	18.1	16.8	16.0
A95-482012	15.5	15.8	15.6	16.8	16.3	15.2	13.5
A95-482025	17.1	18.2	17.8	15.8	18.6	16.2	16.2
A95-482027	17.7	18.8	18.2	16.8	18.5	18.2	15.8
A95-482031	16.6	17.3	17.4	17.8	17.4	14.8	15.0
A95-483007	17.1	16.6	16.6	23.7	16.2	16.2	13.5
A95-485030	18.3	18.7	19.3	17.8	18.9	17.8	17.0
E94080	17.3	18.7	17.4	16.3	18.9	17.9	14.5
E94489	16.5	16.2	16.0	19.0	17.1	15.9	14.5
M92-64	20.9	21.3	21.2	16.8	23.3	22.0	21.0
M92-281	16.8	16.6	16.4	16.9	18.2	17.3	15.5
M92-538	18.3	17.9	18.4	19.5	18.1	18.7	17.0
M92-586	16.5	15.8	16.6	17.9	18.5	14.7	15.3
M92-713	15.0	15.3	15.4	16.6	15.5	13.9	13.3
M92-831	19.2	18.6	18.7	17.7	19.8	20.6	19.5
M92-836	18.8	19.4	17.9	14.5	20.6	20.6	19.5
M92-985	19.7	19.8	20.6	17.6	20.9	20.2	19.0
M92-994	18.3	18.4	20.3	15.3	19.2	18.9	17.9
M92-1031	18.0	17.6	18.4	16.4	20.0	18.8	17.0
M92-1375	18.0	19.1	18.2	15.2	19.2	18.6	17.6
M92-1445	18.5	18.0	18.8	20.6	19.2	17.7	16.9
M92-1449	16.4	17.0	17.4	15.0	17.4	15.9	15.8
M92-1456	18.1	18.8	18.4	15.9	18.8	18.2	18.5
M92-1482	17.7	18.0	18.8	16.6	18.4	18.4	16.0
ORC 9501	17.2	17.9	18.4	15.1	18.4	17.0	16.5
ORC 9502	19.2	19.2	20.4	16.7	20.5	19.0	19.5
ORC 9505	16.0	16.2	17.0	16.3	17.1	15.2	13.9
SD93-472	16.2	16.2	16.7	18.6	15.3	15.2	15.0
SD93-490	16.1	16.4	16.4	15.8	16.6	15.6	15.8
SD93-574	17.9	17.4	18.2	17.3	18.2	18.3	17.9
SD93-1037	20.0	19.3	20.9	18.7	20.5	20.8	19.6
SD93-1387	15.2	16.2	15.0	12.8	15.9	15.7	15.3
SD93-1534	17.0	16.4	16.8	18.7	17.1	17.9	15.3
SD(M)93-3439	16.0	15.8	16.6	15.0	17.5	15.6	15.5
SD(M)93-3524	18.0	17.4	17.8	19.3	18.3	18.1	16.9
SD(ND)93-5937	14.7	14.6	14.2	14.7	14.9	15.6	14.2

PRELIMINARY TEST I, 1996

PROTEIN (%)

Strain	Mean 4 Tests	Kanawha IA	Ingham Co. MI	Waseca MN	Brookings SD
A92-525014 (BSR	42.6	41.6	43.4	42.5	42.8
Lambert (0)	43.9	42.6	46.2	43.2	43.6
Marcus 95 (L)	41.7	40.3	41.8	41.5	43.3
Parker (I)	42.8	41.4	43.2	43.1	43.4
A95-481001	43.1	41.7	43.2	43.6	44.0
A95-481002	42.2	41.8	41.5	41.2	44.4
A95-481003	44.0	42.9	45.0	43.5	44.5
A95-481004	43.4	42.3	42.9	43.3	45.2
A95-481019	41.9	40.4	42.3	42.2	42.5
A95-482001	42.3	40.7	43.6	41.6	43.4
A95-482003	42.5	40.0	44.1	42.3	43.6
A95-482006	42.1	41.9	40.6	41.9	43.8
A95-482012	41.8	40.8	42.0	41.5	42.8
A95-482025	43.0	41.1	44.0	43.4	43.6
A95-482027	44.0	42.4	45.4	44.0	44.1
A95-482031	42.7	41.9	44.6	41.0	43.2
A95-483007	43.6	42.4	43.9	42.9	45.0
A95-485030	42.6	41.9	43.7	43.0	41.6
E94080	43.0	41.9	41.9	43.6	44.4
E94489	42.5	41.7	42.7	43.7	42.0
M92-64	44.9	44.6	46.1	44.6	44.3
M92-281	43.4	42.6	44.3	42.3	44.3
M92-538	41.8	40.8	43.2	41.3	41.9
M92-586	43.7	43.1	45.4	42.9	43.4
M92-713	44.0	43.0	46.1	42.6	44.1
M92-831	44.4	43.9	45.1	46.2	42.5
M92-836	45.3	44.4	47.4	44.5	45.0
M92-985	43.5	42.6	44.7	43.1	43.6
M92-994	43.9	42.8	44.7	44.3	43.6
M92-1031	44.1	43.6	46.2	43.8	42.9
M92-1375	42.1	40.8	42.0	42.3	43.1
M92-1445	43.3	42.6	44.3	42.3	44.0
M92-1449	43.0	41.9	43.1	43.6	43.5
M92-1456	43.5	41.3	44.8	44.3	43.5
M92-1482	43.9	42.3	45.7	43.2	44.2
ORC 9501	42.5	41.1	44.9	42.6	41.3
ORC 9502	42.6	41.1	44.1	43.0	42.3
ORC 9505	42.9	41.0	42.5	43.2	44.7
SD93-472	43.5	42.2	44.8	42.3	44.7
SD93-490	43.3	41.8	44.1	43.8	43.6
SD93-574	44.2	42.5	45.9	44.2	44.0
SD93-1037	44.1	42.7	46.7	43.4	43.6
SD93-1387	44.9	42.4	47.7	44.1	45.2
SD93-1534	43.4	41.8	43.4	42.7	45.7
SD(M)93-3439	42.5	40.7	44.2	41.8	43.2
SD(M)93-3524	41.2	40.4	41.2	41.4	41.7
SD(ND)93-5937	41.5	40.5	42.6	41.5	41.5

PRELIMINARY TEST I, 1996

OIL (%)

Strain	Mean 4 Tests	Kanawha IA	Ingham Co. MI	Waseca MN	Brookings SD
A92-525014 (BSR	20.1	19.7	20.1	19.9	20.7
Lambert (0)	21.0	20.5	19.7	21.7	22.1
Marcus 95 (L)	21.2	21.2	21.3	21.3	20.9
Parker (I)	20.6	20.9	20.4	20.4	20.5
A95-481001	19.9	20.1	19.9	19.7	20.0
A95-481002	20.4	20.2	21.0	20.4	19.8
A95-481003	18.9	18.9	18.9	19.0	18.8
A95-481004	20.5	20.2	21.3	20.4	20.2
A95-481019	20.0	20.0	19.8	19.9	20.3
A95-482001	20.2	20.0	20.4	20.2	20.0
A95-482003	20.2	20.1	19.6	20.5	20.4
A95-482006	20.0	19.6	20.8	19.8	19.6
A95-482012	20.3	20.2	20.5	20.1	20.2
A95-482025	19.8	19.9	19.3	19.6	20.4
A95-482027	19.6	19.6	19.3	19.9	19.7
A95-482031	20.7	20.4	20.7	20.2	21.3
A95-483007	19.8	19.6	20.0	19.7	19.9
A95-485030	20.1	20.0	20.0	19.3	21.0
E94080	20.8	21.0	21.5	19.9	20.7
E94489	19.8	19.8	20.2	19.3	20.0
M92-64	19.6	18.5	19.6	20.0	20.2
M92-281	19.7	19.3	19.4	20.2	19.7
M92-538	20.8	20.5	20.8	21.1	20.9
M92-586	20.1	19.4	19.5	20.3	21.0
M92-713	19.7	19.8	19.5	19.2	20.4
M92-831	19.2	18.7	19.1	19.2	19.7
M92-836	19.8	19.5	19.1	20.1	20.6
M92-985	20.1	19.6	20.1	20.1	20.5
M92-994	19.3	19.2	19.4	19.0	19.6
M92-1031	19.5	18.8	18.7	19.9	20.5
M92-1375	20.1	20.1	20.1	20.3	19.8
M92-1445	19.9	19.6	20.0	19.8	20.2
M92-1449	20.0	20.2	20.0	19.4	20.3
M92-1456	19.3	19.5	19.1	18.2	20.3
M92-1482	19.7	19.6	18.8	20.2	20.3
ORC 9501	20.0	20.1	19.5	20.1	20.4
ORC 9502	20.3	20.2	20.0	20.6	20.2
ORC 9505	19.8	19.9	20.5	19.0	19.7
SD93-472	19.0	18.9	18.7	19.1	19.1
SD93-490	19.7	19.5	19.5	19.6	20.0
SD93-574	20.0	19.9	19.5	20.4	20.2
SD93-1037	20.2	20.7	19.2	20.9	20.0
SD93-1387	18.6	18.9	17.5	19.3	18.7
SD93-1534	19.5	19.5	19.8	19.6	19.1
SD(M)93-3439	20.0	20.1	19.3	20.2	20.3
SD(M)93-3524	20.7	20.0	21.0	20.6	21.1
SD(ND)93-5937	20.7	20.4	20.4	20.6	21.2

UNIFORM TEST II, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	2	F5	
2.	IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	-	F5	
3.	Marcus 95 (I)	[Marcus(5) x Elgin 87] x [Marcus(5) x Preston BC-11-1]		BC4 F2	
4.	A93-552028	Archer x Kenwood	1	F5	BSR
5.	A93-553024 (SCN)	Jack x Marcus	SCN II	?	
6.	A93-553034 (SCN)	Jack x A86-301024	SCN II	?	
7.	A94-672031	A89-144026 x Kenwood	PT IIA	F5	
8.	A94-674017	Pioneer P9301 x Kenwood	PT IIA	F5	
9.	C1912	C1742 x C1763	PT IIB	F6	
10.	C1917	A87-296011 x C1756	PT IIB	F6	
11.	C1925	Archer x Edison	PT IIB	F5	
12.	C1926	ORC8805 x Archer	PT IIB	F5	
13.	E91031	E84108 x Conrad	1	F4	
14.	E93001	Northrup King S23-12 x Elgin 87	1	F5	
15.	E93424	Asgrow A2943 x Northrup King S23-12	PT IIB	F5	
16.	E93433	Asgrow A2943 x Northrup King S23-12	PT IIB	F5	
17.	HF93-082	Haroson x Chapman	PT IIB	F5	
18.	M92-1605 (SCN)	M85-647 x Bell	SCN I	?	
19.	M92-1730 (SCN)	Sturdy x Bell	SCN PII	?	
20.	SD93-522	Glenwood x Jack	PT IIB	F5	

* Number of years in test or name of 1995 test.

UNIFORM TEST II, 1996

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Hum-boldt	Chlorosis Score Lamber-ton	Emerg. Score Humboldt	Shattering Score Manhattan
IA2021 (II)	WTBSYBlI	3.9	4.3	2	1
IA2022 (L)	PGBSYIbI	4.8	5.0	1	2
Marcus 95 (I)	WTTDYBfI	4.3	4.3	4	1
A93-552028	PTTDYBlI	2.8	4.3	2	1
A93-553024 (SCN)	WGTDYYI	4.0	4.7	1	1
A93-553034 (SCN)	PGBSYYI	3.5	4.0	1	1
A94-672031	WTBDYBlI	2.8	2.7	1	1
A94-674017	PTBDYHI	4.5	5.0	1	1
C1912	WTBSYBlI	3.2	4.0	1	1
C1917	PTBDYBrI	3.2	4.7	1	1
C1925	PTTSYBlI	4.4	4.3	1	1
C1926	PGTDYBfI	3.1	3.3	1	1
E91031	PTB+TDYBlI	4.4	4.3	2	1
E93001	PGBSYYI	3.9	4.0	5	1
E93424	PGTDYIbI	4.0	4.0	5	1
E93433	PGTIYIbI	4.4	3.7	3	1
HF93-082	PGBDYIbI	3.1	2.7	3	1
M92-1605 (SCN)	WGB+TDYYI	3.4	3.0	5	1
M92-1730 (SCN)	PGTDYIbI	2.5	2.7	5	1
SD93-522	WGBDYBfI	3.7	4.7	1	1

UNIFORM TEST II, 1996

DISEASE DATA

Strain	BSR Resistance % Incid.	BSR Resistance % Sev.	PR Laf. Race 7	Hard Seed %	PS Lafayette a %	PSB Lafayette n %	PSB Vinc. n %
IA2021 (II)			R	28	60	2	68
IA2022 (L)			S	10	56	4	
Marcus 95 (I)			R	22	52	4	
A93-552028	45	34	R	6	56	2	
A93-553024 (SCN)	55	30	H	0	56	0	
A93-553034 (SCN)	25	21	H	0	72	2	
A94-672031	55	32	R	0	36	0	
A94-674017	20	25	H	0	50	2	
C1912			H	0	12	0	64
C1917			S	14	14	2	54
C1925			R	0	22	4	62
C1926			R	6	60	0	64
E91031			H	0	20	0	
E93001			H	0	28	4	
E93424			H	0	58	14	
E93433			S	16	24	8	
HF93-082			S	8	20	2	
M92-1605 (SCN)			H	0	60	8	
M92-1730 (SCN)			S	4	24	6	
SD93-522			H	0	84	2	

UNIFORM TEST II, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 20 Date	Lodging 20 Score	Plant Height 20 In.	Seed Quality 20 Score	Seed Size 20 g/100	Composition Protein 5 %	 Oil 5 %
IA2021 (II)	51.8	9	09/24	1.5	28	1.3	17.4	40.6	21.9
IA2022 (L)	53.8	4	5.1	1.6	35	1.5	15.1	41.9	20.2
Marcus 95 (I)	49.8	16	-0.3	1.6	29	1.6	17.0	41.0	21.7
A93-552028	53.6	5	2.9	1.6	31	1.3	17.3	41.6	20.4
A93-553024 (SCN)	49.4	19	5.3	2.0	33	1.7	13.8	40.4	21.0
A93-553034 (SCN)	53.6	5	0.5	2.2	34	1.3	15.1	41.8	19.5
A94-672031	54.9	2	3.8	1.9	35	1.5	18.0	41.2	20.6
A94-674017	56.3	1	3.1	1.6	31	1.4	20.6	41.5	21.1
C1912	49.7	18	6.2	1.4	32	1.4	15.1	41.9	20.2
C1917	52.3	8	1.2	1.6	33	1.5	16.9	41.7	20.9
C1925	50.0	13	4.4	1.9	34	1.4	15.1	41.1	20.4
C1926	49.8	16	3.9	1.6	31	1.4	15.6	40.6	21.6
E91031	53.0	7	-0.1	1.4	32	1.2	15.5	40.8	21.0
E93001	54.1	3	2.6	1.5	34	1.3	17.0	40.4	21.4
E93424	50.6	10	-1.3	1.4	29	1.6	17.4	41.5	21.0
E93433	50.1	12	0.3	1.1	27	1.5	19.3	42.1	20.6
HF93-082	49.9	15	3.1	2.1	34	1.6	15.5	40.9	20.8
M92-1605 (SCN)	50.4	11	0.8	1.7	32	1.4	15.4	42.4	20.7
M92-1730 (SCN)	49.4	19	0.4	1.2	28	1.4	19.0	43.0	20.2
SD93-522	50.0	13	1.2	1.9	32	1.5	16.5	40.8	21.3

122.3 Days After Planting

UNIFORM TEST II, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 38 bu/a	Rank 38 No.	Maturity 36 Date	Lodging 40 Score	Plant Height 40 In.	Seed Quality 40 Score	Seed Size 40 g/100	mposition Protein 10 %	 Oil 10 %
IA2021	51.1	4	9/20.5	1.5	29	1.7	16.9	40.8	21.5
Marcus 95	48.8	5	-1.0	1.6	30	1.9	16.7	42.0	21.4
A93-552028	52.2	2	2.8	1.7	32	1.6	16.6	41.6	20.4
E91031	51.3	3	0.3	1.4	33	1.3	15.2	40.9	20.9
E93001	52.3	1	2.9	1.5	35	1.6	16.5	40.8	21.1

119.7 Days After Planting

UNIFORM TEST II, 1996

YIELD (bu/a)

Strain	Mean 19 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	51.8	60.8	66.1	64.7	64.8	45.2	33.7
IA2022 (L)	53.8	55.0	64.1	55.2	74.3	49.6	59.3
Marcus 95 (I)	49.8	57.2	62.0	57.7	59.4	42.9	45.3
A93-552028	53.6	59.7	64.8	57.0	71.1	46.7	43.0
A93-553024 (SCN)	49.4	60.8	58.4	54.9	63.7	49.5	61.4
A93-553034 (SCN)	53.6	63.6	60.9	56.3	64.5	56.5	58.9
A94-672031	54.9	65.2	67.1	58.5	73.0	52.1	61.0
A94-674017	56.3	57.4	67.4	57.7	73.8	47.3	60.8
C1912	49.7	51.7	65.0	51.4	62.3	49.0	53.7
C1917	52.3	52.5	62.9	59.6	64.7	48.3	60.1
C1925	50.0	52.4	58.3	55.1	69.5	40.3	50.7
C1926	49.8	55.6	60.1	57.4	64.9	41.6	52.6
E91031	53.0	52.3	67.0	57.8	71.9	44.5	57.0
E93001	54.1	51.2	67.3	58.7	66.4	49.1	56.4
E93424	50.6	56.5	60.4	60.9	64.2	42.2	48.6
E93433	50.1	53.2	59.3	53.9	59.5	44.9	48.2
HF93-082	49.9	50.9	58.1	53.6	61.3	45.8	56.4
M92-1605 (SCN)	50.4	57.6	60.2	57.9	63.2	46.7	58.6
M92-1730 (SCN)	49.4	61.1	56.5	59.1	64.9	41.8	46.5
SD93-522	50.0	57.6	55.6	59.2	66.6	49.7	52.2
C.V. (%)		6.0	5.4	3.9	5.3	8.2	14.4
L.S.D. (5%)		5.6	5.5	3.7	5.8	6.3	12.5
Row Sp. (In.)		27	27	27	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST II, 1996

YIELD (bu/a)

Strain	Bluffton* IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	29.9	35.3	41.7	47.0	60.2	56.2
IA2022 (L)	28.9	52.2	49.3	54.5	52.3	49.9
Marcus 95 (I)	11.0	40.0	36.9	53.1	54.5	49.0
A93-552028	20.6	46.4	37.4	50.7	62.5	51.5
A93-553024 (SCN)	19.4	46.0	44.8	50.7	43.8	44.6
A93-553034 (SCN)	29.4	48.3	37.8	50.9	62.9	51.3
A94-672031	28.4	51.8	36.3	53.2	54.7	53.6
A94-674017	34.0	48.3	46.9	52.3	60.6	53.6
C1912	23.2	49.0	33.8	51.8	44.6	42.3
C1917	23.9	41.9	43.4	49.5	61.3	52.2
C1925	27.7	47.9	36.9	48.8	55.1	45.3
C1926	6.0	44.0	33.9	49.2	55.3	51.5
E91031	34.3	48.9	32.6	49.0	61.0	56.7
E93001	21.5	51.8	46.8	53.6	60.1	55.5
E93424	14.5	38.5	39.0	56.2	61.3	49.2
E93433	11.4	42.8	45.5	46.0	61.9	48.4
HF93-082	29.5	49.2	36.0	51.6	55.4	49.4
M92-1605 (SCN)	13.4	42.1	41.0	50.3	53.4	52.8
M92-1730 (SCN)	11.2	38.8	38.2	54.2	58.7	48.7
SD93-522	21.6	48.8	45.6	49.0	54.2	51.9
C.V. (%)	38.6	10.1	17.3	5.7	7.2	5.7
L.S.D. (5%)	14.0	7.6	15.6	5.8	6.8	4.8
Row Sp. (In.)	26	24	30	30	10	10
Rows/Plot	4	4	4	4	6	6
Reps	3	3	2	2	3	3

* Data not included in the mean.

UNIFORM TEST II, 1996

YIELD (bu/a)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	59.9	51.2	64.0	47.0	41.3
IA2022 (L)	61.8	45.4	69.7	38.3	42.4
Marcus 95 (I)	57.0	46.7	67.4	42.9	39.0
A93-552028	60.7	51.9	74.5	41.4	44.0
A93-553024 (SCN)	55.6	32.3	53.8	42.3	43.0
A93-553034 (SCN)	60.3	50.6	67.4	45.2	41.0
A94-672031	56.9	47.1	72.4	48.0	40.7
A94-674017	60.1	55.8	74.8	50.7	46.8
C1912	57.0	40.3	73.2	46.9	45.9
C1917	58.6	44.7	63.0	41.7	44.0
C1925	55.8	44.6	67.9	43.3	39.1
C1926	51.9	47.5	70.9	43.3	38.1
E91031	62.7	50.2	71.5	42.1	43.7
E93001	53.7	44.7	65.5	49.8	45.8
E93424	58.7	47.9	62.7	43.7	40.8
E93433	64.7	48.6	64.6	36.4	43.6
HF93-082	49.2	37.6	59.7	43.2	47.3
M92-1605 (SCN)	55.4	41.5	65.1	36.0	43.9
M92-1730 (SCN)	56.4	46.4	64.9	41.2	37.8
SD93-522	52.6	38.7	53.4	40.4	41.7
C.V. (%)	6.6	7.3	5.6	9.0	6.8
L.S.D. (5%)	10.8	6.7	7.5	6.3	3.2
Row Sp. (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	3	3	3	3	3

UNIFORM TEST II, 1996

YIELD (bu/a)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	42.5	54.6	47.9
IA2022 (L)	49.5	55.0	44.0
Marcus 95 (I)	39.8	50.4	44.9
A93-552028	53.9	56.1	44.7
A93-553024 (SCN)	47.9	50.2	34.3
A93-553034 (SCN)	49.7	47.8	43.9
A94-672031	51.2	55.6	44.8
A94-674017	52.3	53.9	48.9
C1912	35.3	51.1	39.9
C1917	43.5	54.8	47.3
C1925	49.0	51.6	37.9
C1926	38.8	50.2	39.6
E91031	39.2	54.7	43.5
E93001	49.2	56.3	46.3
E93424	40.3	46.5	43.4
E93433	35.0	49.2	45.4
HF93-082	50.8	53.7	38.2
M92-1605 (SCN)	45.2	48.4	38.5
M92-1730 (SCN)	43.2	41.8	38.9
SD93-522	43.9	51.1	37.9
C.V. (%)	13.8	6.9	7.3
L.S.D. (5%)	7.0	5.9	5.1
Row Sp. (In.)	30	30	30
Rows/Plot	4	4	4
Reps	3	3	3

UNIFORM TEST II, 1996

YIELD RANK

Strain	Yield Rank	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	9	4	5	1	11	13	20
IA2022 (L)	4	13	8	15	1	4	5
Marcus 95 (I)	16	10	10	10	20	16	18
A93-552028	5	6	7	13	5	10	19
A93-553024 (SCN)	19	4	16	17	15	5	1
A93-553034 (SCN)	5	2	11	14	13	1	6
A94-672031	2	1	3	7	3	2	2
A94-674017	1	9	1	10	2	9	3
C1912	18	18	6	20	17	7	11
C1917	8	15	9	3	12	8	4
C1925	13	16	17	16	6	20	14
C1926	16	12	14	12	9	19	12
E91031	7	17	4	9	4	15	8
E93001	3	19	2	6	8	6	9
E93424	10	11	12	2	14	17	15
E93433	12	14	15	18	19	14	16
HF93-082	15	20	18	19	18	12	9
M92-1605 (SCN)	11	7	13	8	16	10	7
M92-1730 (SCN)	19	3	19	5	9	18	17
SD93-522	13	7	20	4	7	3	13

UNIFORM TEST II, 1996

YIELD RANK

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	3	20	8	19	8	2
IA2022 (L)	6	1	1	2	18	12
Marcus 95 (I)	19	17	14	6	15	15
A93-552028	13	11	13	11	2	9
A93-553024 (SCN)	14	12	6	11	20	19
A93-553034 (SCN)	5	8	12	10	1	11
A94-672031	7	2	16	5	14	4
A94-674017	2	8	2	7	7	4
C1912	10	5	19	8	19	20
C1917	9	16	7	14	4	7
C1925	8	10	14	18	13	18
C1926	20	13	18	15	12	9
E91031	1	6	20	16	6	1
E93001	12	2	3	4	9	3
E93424	15	19	10	1	4	14
E93433	17	14	5	20	3	17
HF93-082	4	4	17	9	11	13
M92-1605 (SCN)	16	15	9	13	17	6
M92-1730 (SCN)	18	18	11	3	10	16
SD93-522	11	7	4	16	16	8

UNIFORM TEST II, 1996

YIELD RANK

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	7	3	15	4	13
IA2022 (L)	3	12	7	18	11
Marcus 95 (I)	10	10	9	11	18
A93-552028	4	2	2	15	5
A93-553024 (SCN)	15	20	19	12	10
A93-553034 (SCN)	5	4	10	6	14
A94-672031	12	9	4	3	16
A94-674017	6	1	1	1	2
C1912	11	17	3	5	3
C1917	9	13	16	14	5
C1925	14	15	8	8	17
C1926	19	8	6	8	19
E91031	2	5	5	13	8
E93001	17	14	11	2	4
E93424	8	7	17	7	15
E93433	1	6	14	19	9
HF93-082	20	19	18	10	1
M92-1605 (SCN)	16	16	12	20	7
M92-1730 (SCN)	13	11	13	16	20
SD93-522	18	18	20	17	12

UNIFORM TEST II, 1996

YIELD RANK

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	14	7	2
IA2022 (L)	6	4	9
Marcus 95 (I)	16	13	6
A93-552028	1	2	8
A93-553024 (SCN)	9	14	20
A93-553034 (SCN)	5	18	10
A94-672031	3	3	7
A94-674017	2	8	1
C1912	19	11	13
C1917	12	5	3
C1925	8	10	19
C1926	18	15	14
E91031	17	6	11
E93001	7	1	4
E93424	15	19	12
E93433	20	16	5
HF93-082	4	9	17
M92-1605 (SCN)	10	17	16
M92-1730 (SCN)	13	20	15
SD93-522	11	12	18

UNIFORM TEST II, 1996

MATURITY (date)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	09/24	09/23	09/17	09/20	09/22	09/30	09/14
IA2022 (L)	5.1	6	6	7	6	2	7
Marcus 95 (I)	-0.3	-2	0	0	0	-1	1
A93-552028	2.9	2	2	4	2	1	3
A93-553024 (SCN)	5.3	5	5	8	5	3	7
A93-553034 (SCN)	0.5	0	2	1	2	-1	-2
A94-672031	3.8	3	5	4	4	2	5
A94-674017	3.1	3	2	6	3	2	4
C1912	6.2	7	5	9	7	3	4
C1917	1.2	-1	1	2	2	-1	0
C1925	4.4	7	4	5	5	3	0
C1926	3.9	2	5	8	4	1	-2
E91031	-0.1	0	0	1	-3	0	-1
E93001	2.6	1	3	5	2	-1	0
E93424	-1.3	-4	-1	-1	-2	-3	-3
E93433	0.3	-3	-1	1	0	0	-1
HF93-082	3.1	0	3	7	4	2	4
M92-1605 (SCN)	0.8	0	2	1	1	-2	3
M92-1730 (SCN)	0.4	0	0	1	2	-3	1
SD93-522	1.2	0	2	1	4	2	2
Date Planted	05/25	05/14	05/07	05/19	05/03	06/14	05/22
Days to Mature	122.3	132	133	124	142	108	115

UNIFORM TEST II, 1996

MATURITY (date)

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	10/05	09/26	09/18	09/17	10/02	09/30
IA2022 (L)	0	5	8	6	5	9
Marcus 95 (I)	-1	-1	-3	0	1	1
A93-552028	-2	2	3	5	3	7
A93-553024 (SCN)	1	4	7	7	5	10
A93-553034 (SCN)	-2	-1	-3	0	2	2
A94-672031	1	5	4	6	3	6
A94-674017	1	4	4	4	2	4
C1912	5	6	7	9	5	10
C1917	-1	-1	1	2	3	2
C1925	0	5	6	8	5	10
C1926	3	3	3	6	5	7
E91031	-2	2	-2	0	2	2
E93001	0	3	5	6	2	5
E93424	-1	1	2	2	-3	1
E93433	-2	1	5	3	1	2
HF93-082	2	5	4	5	2	2
M92-1605 (SCN)	2	-1	1	2	0	2
M92-1730 (SCN)	-1	0	1	3	2	3
SD93-522	0	2	3	2	-1	4
Date Planted	06/18	06/16	05/23	05/23	05/20	05/29
Days to Mature	109	102	118	117	135	124

UNIFORM TEST II, 1996

MATURITY (date)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	09/28	09/22	09/17	10/06	09/19
IA2022 (L)	6	7	8	-2	4
Marcus 95 (I)	0	0	2	-5	5
A93-552028	3	4	6	0	5
A93-553024 (SCN)	5	2	6	3	6
A93-553034 (SCN)	2	3	7	-4	-2
A94-672031	3	3	8	0	5
A94-674017	4	6	3	-1	5
C1912	6	2	9	5	4
C1917	2	3	3	-2	5
C1925	6	5	6	-1	5
C1926	6	7	7	-1	5
E91031	1	-4	2	-1	-2
E93001	3	3	5	0	5
E93424	1	-8	0	-5	1
E93433	2	-2	3	-3	3
HF93-082	5	1	5	0	5
M92-1605 (SCN)	3	0	4	-5	3
M92-1730 (SCN)	2	2	0	-5	1
SD93-522	3	-2	2	1	1
Date Planted	05/22	05/23	05/20	06/24	06/05
Days to Mature	129	122	120	104	106

UNIFORM TEST II, 1996

MATURITY (date)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	09/11	09/20	10/15
IA2022 (L)	2	5	7
Marcus 95 (I)	-1	-3	1
A93-552028	4	2	3
A93-553024 (SCN)	7	7	6
A93-553034 (SCN)	-1	3	3
A94-672031	1	5	4
A94-674017	1	5	3
C1912	8	10	7
C1917	0	5	1
C1925	2	8	3
C1926	2	9	1
E91031	0	2	2
E93001	5	4	1
E93424	2	-1	-1
E93433	-1	1	1
HF93-082	2	4	3
M92-1605 (SCN)	-1	2	1
M92-1730 (SCN)	0	2	1
SD93-522	1	2	0
Date Planted	05/14	05/01	05/16
Days to Mature	120	142	152

UNIFORM TEST II, 1996

LODGING (score)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.5	2.3	1.3	2.8	1.0	1.0	1.0
IA2022 (L)	1.6	2.2	1.6	2.0	1.0	1.0	1.0
Marcus 95 (I)	1.6	2.1	1.3	2.7	1.0	1.0	1.0
A93-552028	1.6	1.8	1.4	2.2	1.0	1.0	1.0
A93-553024 (SCN)	2.0	2.4	1.6	2.7	1.3	1.3	1.0
A93-553034 (SCN)	2.2	2.2	1.7	3.5	2.3	1.3	1.0
A94-672031	1.9	2.3	1.6	2.5	2.3	1.0	1.0
A94-674017	1.6	2.1	1.3	2.2	1.0	1.0	1.0
C1912	1.4	1.5	1.2	2.0	1.0	1.0	1.0
C1917	1.6	1.9	1.3	2.2	1.3	1.0	1.0
C1925	1.9	2.0	1.3	2.3	1.3	1.0	1.0
C1926	1.6	1.9	1.4	2.7	1.0	1.0	1.0
E91031	1.4	1.9	1.3	2.0	1.0	1.0	1.0
E93001	1.5	2.1	1.3	2.0	1.0	1.0	1.0
E93424	1.4	1.8	1.1	1.3	1.0	1.0	1.0
E93433	1.1	1.7	1.1	1.3	1.0	1.0	1.0
HF93-082	2.1	2.1	1.7	3.2	1.7	1.0	1.5
M92-1605 (SCN)	1.7	2.1	1.9	2.5	1.0	1.0	1.3
M92-1730 (SCN)	1.2	1.7	1.2	1.5	1.0	1.0	1.0
SD93-522	1.9	1.9	1.6	3.0	1.0	2.0	1.0

UNIFORM TEST II, 1996

LODGING (score)

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	1.0	1.0	1.0	1.5	1.7	1.0
IA2022 (L)	1.0	1.2	1.0	1.5	2.3	2.3
Marcus 95 (I)	1.0	1.0	1.0	1.5	1.7	1.0
A93-552028	1.0	1.0	1.0	2.0	2.0	1.3
A93-553024 (SCN)	1.0	1.8	2.5	2.5	2.3	2.3
A93-553034 (SCN)	1.0	1.5	1.0	2.0	3.0	2.0
A94-672031	1.0	1.7	1.0	2.0	2.3	2.0
A94-674017	1.0	1.0	1.5	1.5	2.0	1.7
C1912	1.0	1.0	1.0	1.0	1.7	2.0
C1917	1.0	1.0	1.0	1.5	2.3	1.3
C1925	1.0	1.7	1.5	2.5	3.0	2.7
C1926	1.0	1.0	1.0	2.0	2.3	2.0
E91031	1.0	1.0	1.0	1.5	1.7	1.0
E93001	1.0	1.0	1.0	1.5	1.3	1.3
E93424	1.0	1.0	1.0	2.0	1.7	1.3
E93433	1.0	1.0	1.0	1.0	1.3	1.3
HF93-082	1.0	1.7	2.0	2.5	3.0	2.0
M92-1605 (SCN)	1.0	1.2	1.0	2.0	1.7	1.7
M92-1730 (SCN)	1.0	1.0	1.0	1.5	1.3	1.0
SD93-522	1.0	1.8	1.0	2.5	2.0	1.7

UNIFORM TEST II, 1996

LODGING (score)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	1.0	2.0	1.0	2.0	1.7
IA2022 (L)	2.0	2.0	1.3	1.7	1.9
Marcus 95 (I)	1.7	1.7	1.0	3.0	2.8
A93-552028	2.0	2.0	1.0	2.0	2.1
A93-553024 (SCN)	2.0	2.3	2.0	1.7	2.9
A93-553034 (SCN)	3.0	3.0	2.0	4.0	2.9
A94-672031	2.3	2.7	1.7	2.0	2.6
A94-674017	1.7	2.3	1.0	2.3	2.4
C1912	2.0	2.3	1.0	1.0	2.1
C1917	2.0	2.0	1.0	2.0	2.3
C1925	2.0	2.0	1.0	3.0	1.9
C1926	2.0	2.3	1.3	1.0	1.9
E91031	2.0	1.3	1.0	1.0	1.9
E93001	1.7	2.0	1.0	1.3	2.5
E93424	1.0	1.3	1.0	1.0	1.7
E93433	1.0	1.0	1.0	1.0	1.6
HF93-082	2.3	2.7	2.3	2.3	2.8
M92-1605 (SCN)	2.0	2.0	1.0	2.3	2.5
M92-1730 (SCN)	1.3	1.0	1.0	1.0	1.5
SD93-522	2.3	3.3	1.0	2.3	2.3

UNIFORM TEST II, 1996

LODGING (score)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	1.7	1.0	2.0
IA2022 (L)	1.6	1.0	2.0
Marcus 95 (I)	1.8	1.0	2.0
A93-552028	1.5	1.0	2.0
A93-553024 (SCN)	1.9	2.0	2.0
A93-553034 (SCN)	1.8	3.0	2.0
A94-672031	1.8	2.0	2.0
A94-674017	1.7	1.0	2.0
C1912	1.5	1.0	1.0
C1917	1.7	2.0	2.0
C1925	1.8	2.0	2.0
C1926	1.4	2.0	2.0
E91031	1.5	1.0	2.0
E93001	1.4	2.0	2.0
E93424	1.5	1.0	3.0
E93433	1.3	1.0	1.0
HF93-082	1.9	2.0	2.0
M92-1605 (SCN)	1.5	2.0	2.0
M92-1730 (SCN)	1.5	1.0	2.0
SD93-522	1.8	2.0	2.0

UNIFORM TEST II, 1996

PLANT HEIGHT (inches)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	28	35	34	32	30	26	26
IA2022 (L)	35	38	41	39	40	36	37
Marcus 95 (I)	29	31	35	32	31	27	28
A93-552028	31	35	38	36	35	30	30
A93-553024 (SCN)	33	39	39	38	34	31	38
A93-553034 (SCN)	34	37	41	40	35	33	37
A94-672031	35	38	42	38	35	36	41
A94-674017	31	32	37	34	32	30	34
C1912	32	35	40	38	33	31	38
C1917	33	37	39	38	33	31	36
C1925	34	39	41	39	34	31	38
C1926	31	33	39	36	33	29	35
E91031	32	34	37	37	35	28	32
E93001	34	39	42	40	36	33	37
E93424	29	31	35	33	30	27	30
E93433	27	29	32	33	28	24	26
HF93-082	34	32	41	40	35	32	38
M92-1605 (SCN)	32	37	38	36	32	30	34
M92-1730 (SCN)	28	33	36	34	31	25	28
SD93-522	32	34	37	39	34	32	31

UNIFORM TEST II, 1996

PLANT HEIGHT (inches)

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	17	24	24	29	30	31
IA2022 (L)	16	35	36	38	36	41
Marcus 95 (I)	16	26	27	33	29	32
A93-552028	14	28	28	34	33	37
A93-553024 (SCN)	15	31	34	37	34	38
A93-553034 (SCN)	16	35	26	38	35	38
A94-672031	16	31	31	40	36	39
A94-674017	17	27	29	32	33	35
C1912	17	30	27	34	35	36
C1917	16	29	30	34	33	37
C1925	16	32	31	36	36	38
C1926	14	28	26	32	36	36
E91031	14	31	31	36	34	36
E93001	16	31	30	36	33	38
E93424	13	28	28	32	32	32
E93433	17	25	25	28	30	29
HF93-082	17	34	31	34	36	37
M92-1605 (SCN)	14	31	27	36	29	36
M92-1730 (SCN)	15	24	24	31	34	35
SD93-522	15	33	30	39	28	35

UNIFORM TEST II, 1996

PLANT HEIGHT (inches)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	32	35	28	23	24
IA2022 (L)	45	42	37	27	32
Marcus 95 (I)	37	35	32	24	26
A93-552028	39	38	34	25	27
A93-553024 (SCN)	41	39	36	25	29
A93-553034 (SCN)	44	42	38	30	31
A94-672031	45	42	37	29	32
A94-674017	33	37	32	25	31
C1912	38	40	35	27	26
C1917	42	39	36	26	27
C1925	41	41	34	26	27
C1926	40	41	32	25	24
E91031	41	39	34	24	29
E93001	41	41	36	26	32
E93424	36	37	29	25	27
E93433	32	33	27	22	24
HF93-082	38	39	35	27	33
M92-1605 (SCN)	34	38	35	24	31
M92-1730 (SCN)	36	35	30	23	25
SD93-522	40	39	34	29	26

UNIFORM TEST II, 1996

PLANT HEIGHT (inches)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	18	32	24
IA2022 (L)	25	37	35
Marcus 95 (I)	19	33	27
A93-552028	24	38	31
A93-553024 (SCN)	26	41	30
A93-553034 (SCN)	22	45	32
A94-672031	25	40	34
A94-674017	23	36	32
C1912	22	40	32
C1917	25	39	33
C1925	26	43	33
C1926	21	38	30
E91031	20	38	30
E93001	24	39	34
E93424	21	38	28
E93433	17	32	26
HF93-082	27	39	36
M92-1605 (SCN)	22	38	32
M92-1730 (SCN)	18	26	27
SD93-522	21	39	29

UNIFORM TEST II, 1996

SEED QUALITY (score)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.3	1.0	1.0	2.0	1.2	1.5	1.8
IA2022 (L)	1.5	2.0	1.0	1.0	1.2	1.5	1.3
Marcus 95 (I)	1.6	2.0	2.0	1.0	1.5	1.7	1.5
A93-552028	1.3	1.0	1.0	1.0	1.2	1.3	1.4
A93-553024 (SCN)	1.7	2.0	2.0	2.0	1.4	1.4	1.6
A93-553034 (SCN)	1.3	1.0	1.0	1.0	1.4	1.3	1.3
A94-672031	1.5	1.0	1.0	1.0	1.2	1.2	1.2
A94-674017	1.4	1.0	1.0	1.0	1.6	1.5	1.5
C1912	1.4	1.0	1.0	1.0	1.2	1.8	1.2
C1917	1.5	1.0	1.0	1.0	1.2	1.5	1.5
C1925	1.4	2.0	1.0	1.0	1.2	1.6	1.3
C1926	1.4	1.0	1.0	1.0	1.2	1.5	1.4
E91031	1.2	1.0	1.0	1.0	1.3	1.3	1.3
E93001	1.3	1.0	1.0	1.0	1.4	1.5	1.4
E93424	1.6	1.0	2.0	1.0	1.4	1.7	1.5
E93433	1.5	2.0	1.0	1.0	1.6	1.5	1.4
HF93-082	1.6	2.0	1.0	1.0	1.4	1.6	1.4
M92-1605 (SCN)	1.4	2.0	1.0	1.0	1.3	1.6	1.5
M92-1730 (SCN)	1.4	1.0	1.0	1.0	1.2	1.4	1.8
SD93-522	1.5	2.0	2.0	1.0	1.4	1.4	1.5

UNIFORM TEST II, 1996

SEED QUALITY (score)

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	1.0	1.0	1.0	1.5	1.3	1.3
IA2022 (L)	1.0	1.0	1.0	1.0	2.0	2.0
Marcus 95 (I)	1.0	1.0	2.0	1.0	1.7	1.3
A93-552028	1.0	1.0	1.5	1.0	1.3	1.3
A93-553024 (SCN)	1.0	1.0	1.0	1.5	2.0	2.0
A93-553034 (SCN)	1.0	1.0	1.0	1.0	1.3	1.3
A94-672031	1.0	1.0	1.5	1.0	2.0	1.7
A94-674017	1.0	1.0	1.0	1.0	1.7	1.3
C1912	1.0	1.0	1.0	1.0	2.0	2.0
C1917	1.0	1.0	1.0	1.0	1.7	1.3
C1925	1.0	1.0	1.0	1.0	1.7	2.3
C1926	1.0	1.0	1.0	1.0	2.0	1.7
E91031	1.0	1.0	1.0	1.0	1.7	1.7
E93001	1.0	1.0	1.5	1.0	1.3	1.3
E93424	1.0	1.5	1.5	1.0	1.3	1.7
E93433	1.0	1.5	1.0	1.5	2.0	1.7
HF93-082	1.0	1.0	1.0	1.0	2.0	2.0
M92-1605 (SCN)	1.0	1.0	1.0	1.5	2.0	1.3
M92-1730 (SCN)	1.0	1.0	1.0	1.0	1.7	1.3
SD93-522	1.0	1.0	1.0	1.5	1.3	1.3

UNIFORM TEST II, 1996

SEED QUALITY (score)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	1.3	1.3	1.0	1.0	1.0
IA2022 (L)	1.7	1.5	1.3	1.3	2.0
Marcus 95 (I)	2.3	1.5	1.0	1.0	1.0
A93-552028	2.7	1.3	1.3	1.3	1.0
A93-553024 (SCN)	1.7	3.0	1.3	1.0	1.0
A93-553034 (SCN)	2.0	2.3	1.3	1.3	1.0
A94-672031	2.7	1.7	1.0	1.3	1.0
A94-674017	2.0	1.7	1.3	1.0	1.0
C1912	1.3	1.0	1.0	1.0	1.0
C1917	2.0	1.7	1.0	1.3	1.0
C1925	2.0	1.3	1.0	1.0	1.0
C1926	2.0	1.3	1.3	1.0	2.0
E91031	1.7	1.3	1.0	1.0	1.0
E93001	3.0	1.3	1.3	1.0	1.0
E93424	3.0	1.3	1.7	1.0	2.0
E93433	2.7	1.3	1.0	1.0	2.0
HF93-082	3.3	1.7	1.7	1.3	1.0
M92-1605 (SCN)	1.7	1.5	1.0	1.0	1.0
M92-1730 (SCN)	2.3	1.7	1.3	1.3	1.0
SD93-522	1.3	2.0	1.3	1.3	1.0

UNIFORM TEST II, 1996

SEED QUALITY (score)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	2.0	2.0	2.0
IA2022 (L)	1.0	2.0	3.0
Marcus 95 (I)	3.0	2.0	2.0
A93-552028	1.0	2.0	2.0
A93-553024 (SCN)	2.0	3.0	2.0
A93-553034 (SCN)	1.0	2.0	2.0
A94-672031	2.0	3.0	2.0
A94-674017	2.0	3.0	2.0
C1912	1.0	4.0	2.0
C1917	2.0	4.0	2.0
C1925	1.0	2.0	3.0
C1926	1.0	3.0	2.0
E91031	1.0	2.0	1.0
E93001	1.0	3.0	1.0
E93424	1.0	3.0	2.0
E93433	1.0	3.0	2.0
HF93-082	2.0	3.0	2.0
M92-1605 (SCN)	2.0	2.0	2.0
M92-1730 (SCN)	2.0	2.0	2.0
SD93-522	3.0	3.0	2.0

UNIFORM TEST II, 1996

SEED SIZE (g/100)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	17.4	18.6	18.6	17.6	17.6	17.7	15.3
IA2022 (L)	15.1	15.2	16.2	13.8	15.6	15.6	15.6
Marcus 95 (I)	17.0	17.1	18.2	16.6	17.9	17.3	16.1
A93-552028	17.3	18.4	19.0	16.8	18.2	17.4	16.2
A93-553024 (SCN)	13.8	15.6	14.8	13.2	14.2	13.1	13.4
A93-553034 (SCN)	15.1	16.8	17.2	14.8	15.2	15.9	14.2
A94-672031	18.0	19.8	19.6	16.6	19.1	18.6	17.2
A94-674017	20.6	20.7	22.4	19.2	22.3	20.5	20.2
C1912	15.1	15.4	16.4	13.0	14.6	14.9	15.2
C1917	16.9	17.2	18.4	16.1	18.0	17.2	17.7
C1925	15.1	15.5	15.6	13.7	15.8	15.1	13.8
C1926	15.6	16.6	17.0	15.2	16.8	14.7	14.8
E91031	15.5	15.4	17.7	15.0	16.4	15.0	15.6
E93001	17.0	17.4	18.8	16.8	17.6	17.0	16.5
E93424	17.4	17.6	19.2	17.4	19.0	16.8	17.2
E93433	19.3	20.8	22.2	18.5	19.9	18.9	19.1
HF93-082	15.5	16.8	18.0	14.6	17.4	15.3	15.9
M92-1605 (SCN)	15.4	16.8	17.6	15.5	16.6	14.2	16.5
M92-1730 (SCN)	19.0	19.6	20.4	19.4	21.5	19.4	20.4
SD93-522	16.5	17.1	17.7	16.2	18.1	17.1	16.4

UNIFORM TEST II, 1996

SEED SIZE (g/100)

Strain	Bluffton IN	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	17.0	16.2	19.4	18.1	18.0	17.5
IA2022 (L)	15.8	15.8	16.3	13.4	14.3	14.7
Marcus 95 (I)	16.0	15.2	15.8	17.0	17.8	16.6
A93-552028	17.9	15.9	17.7	16.0	16.9	18.2
A93-553024 (SCN)	13.9	12.3	14.1	14.3	13.5	13.7
A93-553034 (SCN)	15.3	14.3	14.1	13.3	14.6	14.6
A94-672031	19.7	17.5	16.8	18.6	16.8	17.9
A94-674017	20.4	18.0	23.6	20.3	19.5	20.5
C1912	15.6	15.5	16.3	15.9	13.5	13.7
C1917	18.4	16.3	16.8	17.6	17.2	16.9
C1925	15.2	15.3	14.7	16.0	15.1	15.9
C1926	14.9	13.5	14.0	14.7	15.8	16.4
E91031	14.0	14.0	16.2	15.1	15.6	15.0
E93001	16.7	15.0	16.9	17.3	17.2	16.3
E93424	17.2	17.4	16.8	16.8	17.8	17.6
E93433	17.3	17.8	19.9	18.4	19.9	19.3
HF93-082	16.2	14.2	16.2	17.1	15.2	14.2
M92-1605 (SCN)	14.1	12.9	17.7	14.4	15.7	15.3
M92-1730 (SCN)	18.3	16.6	17.6	18.5	19.2	18.4
SD93-522	16.2	15.2	20.3	16.1	16.3	15.8

UNIFORM TEST II, 1996

SEED SIZE (g/100)

Strain	Hartington NE	Ord NE	York NE	Adelphia NJ	Hoytville OH
IA2021 (II)	19.0	18.8	18.3	16.7	15.5
IA2022 (L)	16.8	15.3	16.0	13.0	13.9
Marcus 95 (I)	18.7	18.9	18.7	15.7	15.8
A93-552028	19.4	18.0	18.3	14.7	16.0
A93-553024 (SCN)	15.6	12.9	13.0	13.7	14.2
A93-553034 (SCN)	17.5	17.0	16.6	13.3	13.1
A94-672031	19.3	18.3	19.9	17.0	16.2
A94-674017	21.9	22.3	23.3	18.3	19.2
C1912	16.3	15.3	17.1	14.0	15.5
C1917	18.5	17.1	18.0	15.7	16.0
C1925	15.9	16.1	17.1	14.7	13.3
C1926	17.2	17.4	18.3	14.3	14.0
E91031	18.2	16.0	16.9	13.7	14.6
E93001	19.9	18.9	19.1	16.0	15.6
E93424	19.6	17.8	18.7	14.0	15.4
E93433	23.4	19.4	21.5	17.0	19.1
HF93-082	16.6	14.5	16.5	13.7	14.6
M92-1605 (SCN)	18.3	15.1	17.2	12.0	14.4
M92-1730 (SCN)	20.0	20.3	22.0	17.7	17.8
SD93-522	18.1	15.1	15.8	14.0	15.1

UNIFORM TEST II, 1996

SEED SIZE (g/100)

Strain	Wooster OH	Beresford SD	Brookings SD
IA2021 (II)	16.9	16.0	15.7
IA2022 (L)	16.3	14.9	12.7
Marcus 95 (I)	17.4	16.7	15.5
A93-552028	16.3	17.5	15.7
A93-553024 (SCN)	13.2	14.8	11.7
A93-553034 (SCN)	14.9	16.6	13.1
A94-672031	17.0	16.8	16.6
A94-674017	20.5	22.0	18.1
C1912	13.3	15.0	12.9
C1917	16.1	18.0	15.3
C1925	13.9	16.2	12.2
C1926	14.1	16.1	15.1
E91031	14.5	16.0	14.7
E93001	15.4	17.4	15.0
E93424	16.8	16.9	17.1
E93433	19.3	20.0	18.9
HF93-082	13.4	15.0	13.7
M92-1605 (SCN)	13.8	15.2	14.6
M92-1730 (SCN)	17.8	19.0	16.8
SD93-522	17.7	17.0	14.6

UNIFORM TEST II, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN	Woodslee Ont.
IA2021 (II)	40.6	41.2	40.5	39.9	42.1	39.2
IA2022 (L)	41.9	41.2	40.8	41.4	43.7	42.2
Marcus 95 (I)	41.0	41.2	40.7	40.4	42.9	40.0
A93-552028	41.6	40.6	41.5	42.2	42.6	41.0
A93-553024 (SCN)	40.4	40.4	39.7	39.2	42.2	40.3
A93-553034 (SCN)	41.8	41.9	41.0	41.0	43.9	41.3
A94-672031	41.2	41.3	40.1	40.4	42.9	41.3
A94-674017	41.5	42.1	41.2	40.8	42.9	40.4
C1912	41.9	41.9	39.3	40.8	45.0	42.7
C1917	41.7	42.2	41.7	41.1	42.7	40.8
C1925	41.1	41.5	41.3	39.0	42.9	40.6
C1926	40.6	41.2	40.5	39.9	42.5	38.7
E91031	40.8	41.0	40.1	40.6	42.8	39.6
E93001	40.4	42.1	40.1	38.3	42.4	39.2
E93424	41.5	41.2	41.0	40.9	43.0	41.5
E93433	42.1	42.1	41.8	41.3	44.0	41.4
HF93-082	40.9	41.1	40.4	39.7	43.3	40.2
M92-1605 (SCN)	42.4	42.5	41.7	42.7	43.3	41.9
M92-1730 (SCN)	43.0	44.1	42.2	42.4	44.5	42.0
SD93-522	40.8	40.5	41.0	39.5	42.7	40.3

UNIFORM TEST II, 1996

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN	Woodslee Ont.
IA2021 (II)	21.9	20.2	23.1	22.4	21.1	22.9
IA2022 (L)	20.2	19.8	21.1	20.6	19.5	20.1
Marcus 95 (I)	21.7	20.5	22.3	22.6	20.5	22.5
A93-552028	20.4	19.9	21.2	20.7	19.4	20.7
A93-553024 (SCN)	21.0	20.1	22.6	21.8	19.8	20.9
A93-553034 (SCN)	19.5	19.1	20.6	20.3	18.0	19.5
A94-672031	20.6	19.6	21.7	21.5	19.5	20.7
A94-674017	21.1	20.7	21.4	21.6	20.0	22.0
C1912	20.2	19.3	21.3	21.2	18.7	20.3
C1917	20.9	20.3	22.2	21.1	19.7	21.1
C1925	20.4	19.4	21.2	21.2	19.5	20.8
C1926	21.6	20.6	22.7	21.4	20.8	22.4
E91031	21.0	19.9	22.2	21.6	20.0	21.5
E93001	21.4	20.1	22.3	22.6	20.0	21.9
E93424	21.0	20.3	21.4	21.8	20.2	21.2
E93433	20.6	19.6	21.6	21.8	19.0	21.2
HF93-082	20.8	20.8	21.8	21.2	19.3	20.9
M92-1605 (SCN)	20.7	20.0	21.2	21.5	19.9	21.0
M92-1730 (SCN)	20.2	19.1	21.2	20.7	19.3	20.9
SD93-522	21.3	20.3	21.6	22.7	20.5	21.6

PRELIMINARY TEST IIA, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	F5	
3.	Marcus 95 (I)	[Marcus(5) x Elgin 87] x [Marcus(5) x Preston BC-11-1]	BC4 F2	Rps1-k, Rps6
4.	A95-482024	A90-111005 x Northrup King S20-20	F5	BSR
5.	A95-485004	(Pioneer P9241 x A13) x Northrup King S20-20	F5	Fe Chlor.
6.	A95-485008	(Pioneer P9273 x A13) x AgriPro AP2535		F5
7.	A95-485019	(Pioneer P9273 x A13) x Jack	F5	
8.	A95-485020	(Pioneer P9273 x A13) x Jack	F5	
9.	A95-485023	(Parker x A13) x Pioneer P9241	F5	Fe Chlor.
10.	A95-581007	Northrup King S20-20 x Pioneer P9241	F5	Fe Chlor.
11.	A95-581009	Northrup King S20-20 x Pioneer P9241	F5	
12.	A95-581016	AgriPro AP2535 x Pioneer P9273	F5	
13.	A95-581022	Parker x HS88-4909	F5	
14.	A95-581028	Marcus x Pioneer P9273	F5	
15.	A95-582003	Pioneer P9273 x A89-144036	F5	
16.	A95-582004	Parker x Archer	F5	
17.	A95-582006	IA2008 x Marcus	F5	BSR
18.	A95-585061	Marcus x Northrup King S20-20	F5	
19.	HC92-1606	HC83-4523 x Resnik	F5	Dt1
20.	HC92-1799	Resnik x HC85-5273	F5	Dt1
21.	U95-2113	MSBP1	F7	
22.	U95-2114	MSBP1	F7	
23.	U95-2135	MSBP1	F7	
24.	U95-2219	MSBP1	F7	
25.	U95-2233	MSBP1	F7	
26.	U95-2236	MSBP1	F7	
27.	U95-2336	Pioneer P9273 x UX93-2	F6	
28.	U95-2417	MSBP1	F7	
29.	U95-2418	MSBP1	F7	
30.	U95-2420	Pioneer P9273 x UX93-2	F6	
31.	U95-2422	MSBP1	F7	
32.	U95-2424	MSBP1	F7	
33.	U95-2435	MSBP1	F7	
34.	U95-2723	K1180 x PI 437.088A	F6	

PRELIMINARY TEST IIA, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	BSR Resistance % Incid.	BSR Resistance % Sev.
IA2021 (II)	WTBSYBlI	3.6	1		
IA2022 (L)	PGBSYIbI	3.8	1		
Marcus 95 (I)	WTTDYBfI	3.6	1		
A95-482024	PGBSYBfI	3.5	1	45	25
A95-485004	PGBDYYI	3.0	1	85	33
A95-485008	PGBDYIbI	2.8	1	70	30
A95-485019	PGBDYYI	3.0	1	30	28
A95-485020	PG+TBDYGrI	2.8	1	25	30
A95-485023	PGBDYIbI	2.4	1	85	33
A95-581007	PGBIYYI	2.6	1	90	27
A95-581009	PGBDYYI	2.8	1	65	32
A95-581016	PTBDYBlI	2.9	2	80	32
A95-581022	PGBDYGrI	3.0	1	25	17
A95-581028	WTTDYGrI	3.4	1	55	28
A95-582003	PTBIYBlI	2.8	1	40	35
A95-582004	P+WGBDYBfI	2.1	1	20	9
A95-582006	WGTDYBfI	3.2	1	60	35
A95-585061	WTTDYYI	3.2	1	95	39
HC92-1606	WTTSYBlI	3.7	1		
HC92-1799	PTTDYBlI	3.6	1		
U95-2113	PTBDYBlI	3.2	1		
U95-2114	WGBSYBrI	3.0	2		
U95-2135	WGBDYBfI	3.0	1		
U95-2219	WGTDYBfI	4.1	1		
U95-2233	PTTSYBrI	3.5	1		
U95-2236	WGTDYBfI	3.2	1		
U95-2336	PTBDYBlI	3.0	1		
U95-2417	PGTDYYI	3.5	1		
U95-2418	WGBDYYI	3.2	2		
U95-2420	PTBIYBlI	3.0	1		
U95-2422	PG+TB+TDYIbI	3.2	1		
U95-2424	PTBDYBlI	3.4	1		
U95-2435	PTBDYBlI	2.5	1		
U95-2723	PGBDYBfI	2.6	2		

PRELIMINARY TEST IIA, 1996

DISEASE DATA

Strain	PR Lafayette Race 7	Hard Seed Lafayette %	PS Lafayette a %	PSB n %
IA2021 (II)	R	28	60	2
IA2022 (L)	S	10	56	4
Marcus 95 (I)	R	22	52	4
A95-482024	S	4	26	2
A95-485004	R	8	32	0
A95-485008	R	0	24	0
A95-485019	R	0	36	0
A95-485020	R	12	46	4
A95-485023	R	0	26	4
A95-581007	R	12	46	6
A95-581009	H	0	38	4
A95-581016	H	0	16	0
A95-581022	S	6	26	0
A95-581028	S	24	18	10
A95-582003	S	0	54	4
A95-582004	H	0	12	2
A95-582006	H	0	8	0
A95-585061	S	24	52	0
HC92-1606	H	0	54	2
HC92-1799	R	0	20	6
U95-2113	H	0	62	4
U95-2114	S	0	74	2
U95-2135	S	16	68	2
U95-2219	S	0	42	6
U95-2233	R	0	42	0
U95-2236	S	0	20	10
U95-2336	S	0	12	8
U95-2417	S	0	8	2
U95-2418	H	0	26	2
U95-2420	H	0	24	4
U95-2422	H	8	26	0
U95-2424	H	0	44	8
U95-2435	H	0	32	6
U95-2723	S	14	34	2

PRELIMINARY TEST IIA, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 10 Date	Lodging 11 Score	Plant Height 11 In.	Seed Quality 11 Score	Seed Size 10 g/100	Composition Protein 5 %	 Oil 5 %
IA2021 (II)	52.9	10	09/22	1.4	27	1.4	16.7	40.6	22.3
IA2022 (L)	50.9	24	5.2	1.4	34	1.4	14.8	42.4	20.4
Marcus 95 (I)	51.7	18	-0.5	1.5	29	1.3	16.4	42.0	21.8
A95-482024	53.0	7	1.2	2.1	34	1.3	17.6	42.3	20.6
A95-485004	52.1	15	5.3	2.2	34	1.5	18.0	42.8	20.1
A95-485008	54.1	4	6.2	1.3	31	1.5	14.5	41.4	21.4
A95-485019	52.2	14	4.3	1.2	29	1.6	16.2	41.8	20.9
A95-485020	55.6	1	5.2	1.6	31	1.2	15.9	40.9	21.7
A95-485023	48.9	31	1.2	1.9	30	1.6	15.4	43.1	20.2
A95-581007	53.4	6	2.8	1.3	29	1.5	17.0	41.0	21.0
A95-581009	52.7	12	4.3	1.3	29	1.7	14.9	41.2	20.8
A95-581016	52.0	16	3.2	1.4	30	1.5	15.9	41.9	21.3
A95-581022	54.7	2	3.7	2.1	33	1.3	15.8	41.6	20.7
A95-581028	54.7	2	5.0	1.2	28	1.3	14.1	41.8	21.6
A95-582003	52.4	13	2.8	1.5	31	1.4	17.1	41.6	20.7
A95-582004	53.0	7	0.1	1.7	33	1.3	17.6	43.3	20.6
A95-582006	54.0	5	-1.6	2.1	33	1.3	14.8	41.8	20.7
A95-585061	50.8	25	0.4	1.7	31	1.4	14.4	41.8	21.1
HC92-1606	50.3	27	7.7	1.5	33	1.2	15.2	42.5	21.5
HC92-1799	48.5	32	8.3	2.0	34	1.4	14.0	42.5	20.8
U95-2113	50.6	26	3.1	1.3	29	1.5	15.1	40.3	22.3
U95-2114	51.3	23	3.8	2.5	34	1.2	15.8	42.0	20.4
U95-2135	49.2	29	1.6	2.0	33	1.3	16.7	42.2	20.3
U95-2219	53.0	7	4.4	1.8	30	1.1	16.6	43.4	20.4
U95-2233	51.9	17	2.7	1.4	30	1.3	18.6	42.1	21.2
U95-2236	49.0	30	2.3	1.5	31	1.2	15.9	42.4	20.9
U95-2336	50.3	27	2.8	1.2	28	1.3	15.7	40.1	22.1
U95-2417	47.8	33	3.4	2.0	34	1.2	15.1	41.0	21.9
U95-2418	52.8	11	-2.4	1.6	29	1.4	15.8	41.3	21.1
U95-2420	51.7	18	2.7	1.2	29	1.4	15.9	40.3	22.1
U95-2422	51.5	21	3.6	1.3	29	1.4	15.0	40.7	21.2
U95-2424	51.6	20	3.5	1.2	28	1.4	15.5	40.5	22.2
U95-2435	51.4	22	3.9	1.2	29	1.3	15.3	40.4	22.2
U95-2723	36.9	34	0.6	2.1	31	1.4	13.5	46.2	17.9

119.0 Days After Planting

PRELIMINARY TEST IIA, 1996

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Hubbard IA	Urbana** IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	52.9	61.9	60.4	23.7	45.5	32.4
IA2022 (L)	50.9	59.0	56.4	41.4	55.8	30.3
Marcus 95 (I)	51.7	61.1	60.2	16.6	47.1	35.2
A95-482024	53.0	65.9	61.5	38.1	48.5	29.4
A95-485004	52.1	60.1	56.9	34.2	54.3	38.8
A95-485008	54.1	64.7	56.0	34.1	54.5	37.5
A95-485019	52.2	67.2	56.4	64.7	53.6	35.1
A95-485020	55.6	71.7	60.9	54.8	58.0	42.0
A95-485023	48.9	58.3	59.3	31.6	43.8	30.3
A95-581007	53.4	60.6	57.1	23.6	54.7	32.4
A95-581009	52.7	61.7	60.1	25.9	52.8	30.3
A95-581016	52.0	68.1	59.3	23.7	51.2	31.5
A95-581022	54.7	66.5	61.0	32.2	59.6	35.5
A95-581028	54.7	68.7	61.0	32.2	54.3	39.9
A95-582003	52.4	62.2	54.7	34.3	52.7	34.8
A95-582004	53.0	62.3	62.2	29.2	50.2	38.8
A95-582006	54.0	64.3	60.2	33.9	55.0	36.4
A95-585061	50.8	65.0	61.1	23.8	51.2	25.1
HC92-1606	50.3	57.7	52.5	32.6	56.3	33.3
HC92-1799	48.5	59.2	54.1	40.1	54.9	37.5
U95-2113	50.6	61.6	59.2	35.7	48.2	29.7
U95-2114	51.3	65.7	57.5	38.9	50.5	37.0
U95-2135	49.2	54.7	59.0	39.3	44.9	30.9
U95-2219	53.0	58.6	59.6	34.7	51.8	37.7
U95-2233	51.9	60.7	56.3	32.1	49.3	41.9
U95-2236	49.0	67.0	53.1	31.8	47.5	35.9
U95-2336	50.3	66.0	56.6	33.9	52.4	34.4
U95-2417	47.8	59.8	54.7	23.9	48.5	33.9
U95-2418	52.8	63.0	64.8	26.3	50.7	37.3
U95-2420	51.7	64.1	57.2	33.3	50.7	33.1
U95-2422	51.5	55.8	58.4	26.0	54.3	29.3
U95-2424	51.6	66.5	58.4	33.4	48.0	29.0
U95-2435	51.4	61.7	59.6	36.8	49.3	41.7
U95-2723	36.9	42.7	50.4	29.4	38.1	20.7
C.V. (%)		6.7	4.4	16.9	6.0	14.1
L.S.D. (5%)		8.3	5.1	11.4	6.2	10.3
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

** SCN damage. Data not included in the mean.

PRELIMINARY TEST IIA, 1996

YIELD (bu/a)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	58.2	65.2	44.5	41.9	60.4	58.5
IA2022 (L)	50.8	64.2	42.5	47.2	55.6	47.4
Marcus 95 (I)	52.3	67.8	47.4	37.6	55.3	53.3
A95-482024	49.9	68.3	49.0	42.0	63.5	51.5
A95-485004	44.4	65.4	47.0	44.1	59.1	50.4
A95-485008	55.7	70.5	44.9	38.9	59.3	59.3
A95-485019	53.9	62.8	43.9	37.3	56.0	56.0
A95-485020	58.0	68.5	40.0	41.4	56.5	59.1
A95-485023	49.6	63.3	41.9	32.8	63.2	46.1
A95-581007	50.9	69.8	40.0	46.4	67.8	54.2
A95-581009	52.0	64.9	46.6	48.5	52.5	57.9
A95-581016	48.4	64.4	44.7	42.3	55.3	55.2
A95-581022	48.9	70.3	46.1	42.9	62.3	53.9
A95-581028	53.6	67.1	42.2	41.8	62.4	56.3
A95-582003	51.2	68.8	44.2	36.7	64.4	54.3
A95-582004	56.6	73.9	44.0	34.2	57.6	50.2
A95-582006	53.3	75.6	42.5	40.9	57.5	54.4
A95-585061	51.5	64.5	38.5	42.5	60.6	48.2
HC92-1606	55.7	64.5	46.2	48.4	37.4	50.9
HC92-1799	37.0	62.1	45.2	34.8	43.1	57.4
U95-2113	49.3	64.1	41.9	44.3	57.3	50.0
U95-2114	53.4	69.5	45.7	38.4	53.0	42.0
U95-2135	48.7	63.9	43.8	39.1	63.0	44.0
U95-2219	54.2	60.9	42.0	47.4	59.5	58.5
U95-2233	45.3	66.5	40.5	42.5	62.6	53.7
U95-2236	48.6	58.5	36.9	40.2	51.6	50.9
U95-2336	53.6	68.3	41.0	39.3	56.4	35.4
U95-2417	42.9	61.6	45.3	37.3	47.9	46.5
U95-2418	52.1	63.7	42.5	39.8	62.3	51.6
U95-2420	50.6	63.9	40.6	44.0	59.1	53.6
U95-2422	54.4	68.4	41.5	43.0	59.2	50.5
U95-2424	55.1	66.5	41.9	37.8	59.2	53.1
U95-2435	55.1	67.7	44.8	36.4	56.2	41.6
U95-2723	36.6	52.2	33.7	22.0	36.1	36.6
C.V. (%)	8.2	6.2	8.4	8.6	8.9	7.7
L.S.D. (5%)	12.0	11.7	7.2	5.1	8.6	8.0
Row Sp. (In.)	30	30	30	30	24	30
Rows/Plot	4	4	4	4	4	4
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIA, 1996

YIELD RANK

Strain	Yield Rank	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	10	18	8	31	31	22
IA2022 (L)	24	28	25	3	4	26
Marcus 95 (I)	18	22	9	34	30	15
A95-482024	7	9	3	7	25	30
A95-485004	15	25	23	12	9	5
A95-485008	4	12	28	13	8	8
A95-485019	14	4	25	1	12	16
A95-485020	1	1	7	2	2	1
A95-485023	31	30	14	23	33	26
A95-581007	6	24	22	33	7	22
A95-581009	12	19	11	28	13	26
A95-581016	16	3	14	31	17	24
A95-581022	2	6	5	19	1	14
A95-581028	2	2	5	19	9	4
A95-582003	13	17	29	11	14	17
A95-582004	7	16	2	25	22	5
A95-582006	5	13	9	14	5	12
A95-585061	25	11	4	30	17	33
HC92-1606	27	31	33	18	3	20
HC92-1799	32	27	31	4	6	8
U95-2113	26	21	16	9	27	29
U95-2114	23	10	20	6	21	11
U95-2135	29	33	17	5	32	25
U95-2219	7	29	12	10	16	7
U95-2233	17	23	27	21	23	2
U95-2236	30	5	32	22	29	13
U95-2336	27	8	24	14	15	18
U95-2417	33	26	29	29	25	19
U95-2418	11	15	1	26	19	10
U95-2420	18	14	21	17	19	21
U95-2422	21	32	18	27	9	31
U95-2424	20	6	18	16	28	32
U95-2435	22	19	12	8	23	3
U95-2723	34	34	34	24	34	34

PRELIMINARY TEST IIA, 1996

YIELD RANK

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	1	18	13	15	11	3
IA2022 (L)	21	23	18	4	25	27
Marcus 95 (I)	15	12	2	26	26	16
A95-482024	23	10	1	14	3	19
A95-485004	31	17	3	7	16	23
A95-485008	4	3	10	23	13	1
A95-485019	10	29	16	27	24	8
A95-485020	2	8	30	17	21	2
A95-485023	24	28	23	33	4	29
A95-581007	20	5	30	5	1	12
A95-581009	17	19	4	1	29	5
A95-581016	29	22	12	13	27	9
A95-581022	26	4	6	10	9	13
A95-581028	12	14	21	16	7	7
A95-582003	19	7	14	29	2	11
A95-582004	3	2	15	32	18	24
A95-582006	14	1	18	18	19	10
A95-585061	18	20	32	11	10	26
HC92-1606	5	20	5	2	33	20
HC92-1799	33	30	9	31	32	6
U95-2113	25	24	23	6	20	25
U95-2114	13	6	7	24	28	31
U95-2135	27	25	17	22	5	30
U95-2219	9	32	22	3	12	4
U95-2233	30	16	29	11	6	14
U95-2236	28	33	33	19	30	21
U95-2336	11	11	27	21	22	34
U95-2417	32	31	8	27	31	28
U95-2418	16	27	18	20	8	18
U95-2420	22	26	28	8	17	15
U95-2422	8	9	26	9	14	22
U95-2424	7	15	23	25	15	17
U95-2435	6	13	11	30	23	32
U95-2723	34	34	34	34	34	33

PRELIMINARY TEST IIA, 1996

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	09/22	09/20		09/15	09/27	09/14
IA2022 (L)	5.2	8		4	5	5
Marcus 95 (I)	-0.5	0		-3	-1	3
A95-482024	1.2	0		0	3	2
A95-485004	5.3	6		3	6	3
A95-485008	6.2	6		3	6	10
A95-485019	4.3	5		5	4	6
A95-485020	5.2	6		3	5	8
A95-485023	1.2	2		3	-2	1
A95-581007	2.8	4		0	0	3
A95-581009	4.3	6		2	4	3
A95-581016	3.2	4		3	2	4
A95-581022	3.7	6		3	4	3
A95-581028	5.0	5		4	4	6
A95-582003	2.8	4		2	3	4
A95-582004	0.1	0		-1	0	5
A95-582006	-1.6	2		-4	-2	0
A95-585061	0.4	2		-2	0	-1
HC92-1606	7.7	7		6	9	8
HC92-1799	8.3	10		7	7	10
U95-2113	3.1	0		2	2	4
U95-2114	3.8	5		2	4	6
U95-2135	1.6	-1		-1	3	2
U95-2219	4.4	4		3	5	5
U95-2233	2.7	3		-1	3	8
U95-2236	2.3	1		1	3	3
U95-2336	2.8	2		1	3	4
U95-2417	3.4	2		1	3	6
U95-2418	-2.4	0		-3	0	3
U95-2420	2.7	2		3	3	3
U95-2422	3.6	2		2	5	3
U95-2424	3.5	1		2	4	3
U95-2435	3.9	3		2	4	6
U95-2723	0.6	-2		-1	-1	3
Date Planted	05/26	05/14		05/22	06/16	05/16
Days to Mature	119.0	129		116	103	121

PRELIMINARY TEST IIA, 1996

MATURITY (date)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	09/23	09/18	10/03	09/19	10/03	09/20
IA2022 (L)	2	6	2	5	7	8
Marcus 95 (I)	-3	0	-2	2	1	-2
A95-482024	-4	-1	4	5	0	3
A95-485004	4	6	7	4	5	9
A95-485008	4	6	3	6	7	11
A95-485019	1	2	1	6	6	7
A95-485020	2	6	2	5	7	8
A95-485023	2	4	-4	4	-3	5
A95-581007	3	3	2	3	2	8
A95-581009	1	5	6	6	2	8
A95-581016	2	3	-2	5	4	7
A95-581022	1	6	2	5	2	5
A95-581028	3	5	2	5	8	8
A95-582003	1	2	-1	5	2	6
A95-582004	1	-1	-2	-4	0	3
A95-582006	-4	-2	-4	-3	0	1
A95-585061	-3	1	-3	4	2	4
HC92-1606	6	7	8	10	6	10
HC92-1799	5	7	8	10	10	9
U95-2113	2	5	1	6	3	6
U95-2114	2	5	1	5	2	6
U95-2135	-1	5	0	4	2	3
U95-2219	3	5	3	6	4	6
U95-2233	-3	2	-1	5	4	7
U95-2236	1	6	-2	2	2	6
U95-2336	-2	4	-1	6	5	6
U95-2417	2	4	2	5	2	7
U95-2418	-10	-6	-4	-5	-2	3
U95-2420	-1	1	2	4	3	7
U95-2422	2	6	3	6	2	5
U95-2424	1	6	2	5	4	7
U95-2435	1	5	3	5	4	6
U95-2723	0	1	-4	1	1	8
Date Planted	05/23	05/20	06/24	06/05	05/28	05/01
Days to Mature	123	121	101	106	128	142

PRELIMINARY TEST IIA, 1996

LODGING (score)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	1.4	1.5	2.3	1.1	1.0	1.0
IA2022 (L)	1.4	1.8	1.8	1.0	1.3	1.0
Marcus 95 (I)	1.5	1.3	2.5	1.0	1.0	1.0
A95-482024	2.1	2.3	3.5	1.0	2.3	1.1
A95-485004	2.2	2.5	2.5	1.0	2.5	1.0
A95-485008	1.3	1.3	2.0	1.0	1.0	1.0
A95-485019	1.2	1.5	2.0	1.0	1.0	1.1
A95-485020	1.6	1.6	2.3	1.0	1.0	1.5
A95-485023	1.9	2.3	2.5	1.0	1.8	1.0
A95-581007	1.3	1.6	1.8	1.0	1.0	1.0
A95-581009	1.3	1.7	1.8	1.0	1.0	1.0
A95-581016	1.4	1.4	2.0	1.0	1.0	1.1
A95-581022	2.1	2.3	2.8	1.0	3.5	1.4
A95-581028	1.2	1.2	1.8	1.0	1.0	1.0
A95-582003	1.5	1.4	3.0	1.0	1.3	1.0
A95-582004	1.7	1.7	3.0	1.0	1.0	1.0
A95-582006	2.1	1.9	3.0	1.0	2.3	1.1
A95-585061	1.7	2.0	2.8	1.0	2.0	1.0
HC92-1606	1.5	1.6	2.8	1.0	1.0	1.0
HC92-1799	2.0	2.0	2.5	1.0	2.0	1.4
U95-2113	1.3	1.3	1.8	1.0	1.0	1.1
U95-2114	2.5	2.5	3.3	1.0	3.0	1.5
U95-2135	2.0	1.8	2.8	1.0	1.8	1.0
U95-2219	1.8	2.5	2.5	1.0	1.5	1.0
U95-2233	1.4	1.4	2.0	1.0	1.0	1.1
U95-2236	1.5	1.6	2.3	1.0	1.0	1.0
U95-2336	1.2	1.3	2.0	1.0	1.0	1.0
U95-2417	2.0	2.1	3.5	1.0	1.8	1.0
U95-2418	1.6	2.1	3.3	1.0	1.0	1.0
U95-2420	1.2	1.2	1.8	1.0	1.0	1.1
U95-2422	1.3	1.2	1.5	1.0	1.0	1.0
U95-2424	1.2	1.2	2.0	1.0	1.0	1.0
U95-2435	1.2	1.4	2.3	1.0	1.0	1.1
U95-2723	2.1	2.4	4.0	1.0	1.3	1.4

PRELIMINARY TEST IIA, 1996

LODGING (score)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	1.5	1.0	2.0	1.5	1.5	1.0
IA2022 (L)	1.5	1.0	1.0	1.5	2.0	2.0
Marcus 95 (I)	1.5	1.0	2.5	1.4	2.0	1.0
A95-482024	2.5	1.0	3.0	1.7	3.0	2.0
A95-485004	3.0	1.5	3.0	1.7	2.5	3.0
A95-485008	2.0	1.0	1.0	1.5	1.0	1.0
A95-485019	1.0	1.0	1.5	1.4	1.0	1.0
A95-485020	2.0	1.0	2.5	1.6	2.0	1.0
A95-485023	3.0	1.5	2.5	1.5	2.0	2.0
A95-581007	1.5	1.0	1.0	1.4	2.0	1.0
A95-581009	1.5	1.0	1.0	1.4	2.0	1.0
A95-581016	2.0	1.0	1.0	1.6	2.0	1.0
A95-581022	2.5	1.0	2.5	1.6	3.0	1.0
A95-581028	1.5	1.0	1.0	1.6	1.0	1.0
A95-582003	2.0	1.0	1.5	1.5	2.0	1.0
A95-582004	3.0	1.0	2.0	1.5	2.0	2.0
A95-582006	2.5	1.0	3.0	1.6	3.0	3.0
A95-585061	2.0	1.0	1.5	1.7	1.5	2.0
HC92-1606	2.5	1.0	1.0	1.4	2.5	1.0
HC92-1799	3.5	2.0	1.5	1.6	2.0	2.0
U95-2113	1.0	1.0	1.0	1.6	2.0	1.0
U95-2114	3.0	2.0	3.5	1.7	3.5	2.0
U95-2135	3.5	1.0	3.0	1.4	3.0	2.0
U95-2219	2.5	1.0	1.5	1.6	2.5	2.0
U95-2233	1.0	1.0	3.0	1.5	1.0	1.0
U95-2236	1.5	1.0	2.0	1.8	2.5	1.0
U95-2336	1.0	1.0	1.0	1.7	1.5	1.0
U95-2417	3.0	1.5	2.0	1.7	2.0	2.0
U95-2418	1.0	1.0	1.0	1.6	3.0	2.0
U95-2420	1.0	1.0	1.0	1.5	1.5	1.0
U95-2422	1.5	1.0	2.0	1.6	1.5	1.0
U95-2424	1.0	1.0	1.0	1.6	1.0	1.0
U95-2435	1.0	1.0	1.0	1.4	1.0	1.0
U95-2723	3.5	2.0	1.5	1.5	3.0	1.0

PRELIMINARY TEST IIA, 1996

PLANT HEIGHT (inches)

Strain	Mean 11.0 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	27	33	34	20	27	24
IA2022 (L)	34	40	38	27	35	26
Marcus 95 (I)	29	32	34	17	29	25
A95-482024	34	38	40	24	36	26
A95-485004	34	39	40	25	31	29
A95-485008	31	38	35	22	33	26
A95-485019	29	35	34	28	28	24
A95-485020	31	36	36	29	34	27
A95-485023	30	35	34	22	31	22
A95-581007	29	36	36	20	30	23
A95-581009	29	36	34	19	31	22
A95-581016	30	34	34	19	30	28
A95-581022	33	39	39	24	37	28
A95-581028	28	35	34	20	30	25
A95-582003	31	38	35	24	31	29
A95-582004	33	36	40	22	34	29
A95-582006	33	38	40	24	33	27
A95-585061	31	36	38	21	34	25
HC92-1606	33	40	36	26	33	29
HC92-1799	34	38	38	28	34	33
U95-2113	29	34	34	24	28	23
U95-2114	34	42	40	27	38	30
U95-2135	33	37	38	25	34	26
U95-2219	30	34	36	23	31	24
U95-2233	30	38	37	23	29	28
U95-2236	31	38	36	21	32	26
U95-2336	28	34	32	20	28	24
U95-2417	34	38	40	23	38	30
U95-2418	29	33	32	19	28	25
U95-2420	29	36	33	21	29	24
U95-2422	29	32	34	20	29	25
U95-2424	28	34	32	22	28	23
U95-2435	29	35	34	23	28	28
U95-2723	31	36	36	28	34	27

PRELIMINARY TEST IIA, 1996

PLANT HEIGHT (inches)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	35	29	23	26	22	28
IA2022 (L)	43	36	29	33	29	41
Marcus 95 (I)	38	33	24	28	24	35
A95-482024	35	39	33	30	34	38
A95-485004	36	38	29	38	30	40
A95-485008	39	34	26	31	30	29
A95-485019	34	29	22	25	26	31
A95-485020	38	32	25	22	28	33
A95-485023	36	39	24	27	29	34
A95-581007	39	31	21	24	27	37
A95-581009	39	29	22	29	28	25
A95-581016	41	31	23	30	28	29
A95-581022	46	37	28	27	26	37
A95-581028	38	31	22	22	24	28
A95-582003	38	34	26	30	28	30
A95-582004	40	39	30	27	28	37
A95-582006	42	37	29	29	29	35
A95-585061	40	34	24	26	25	33
HC92-1606	42	37	27	28	31	39
HC92-1799	35	39	28	32	27	40
U95-2113	37	30	24	27	26	28
U95-2114	38	43	28	32	26	35
U95-2135	38	38	28	31	30	37
U95-2219	38	32	24	28	30	32
U95-2233	37	29	24	31	26	33
U95-2236	43	36	25	29	28	30
U95-2336	36	29	23	25	26	33
U95-2417	44	38	30	34	24	35
U95-2418	38	31	23	29	26	31
U95-2420	39	32	23	28	27	32
U95-2422	43	30	22	26	28	29
U95-2424	35	31	23	32	26	27
U95-2435	37	32	23	24	24	28
U95-2723	40	33	24	30	30	22

PRELIMINARY TEST IIA, 1996

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	1.4	1.0	1.0	2.3	1.0	2.0
IA2022 (L)	1.4	1.0	1.0	1.4	1.0	1.0
Marcus 95 (I)	1.3	1.0	1.0	1.4	1.0	1.5
A95-482024	1.3	1.0	1.0	1.6	1.0	2.0
A95-485004	1.5	1.0	2.0	1.4	1.0	1.0
A95-485008	1.5	1.0	1.0	1.4	1.0	1.0
A95-485019	1.6	1.0	1.0	1.5	1.0	1.5
A95-485020	1.2	1.0	1.0	1.5	1.5	1.0
A95-485023	1.6	1.0	2.0	1.6	1.0	1.5
A95-581007	1.5	1.0	1.0	2.0	1.0	1.0
A95-581009	1.7	1.0	1.0	1.8	1.0	1.5
A95-581016	1.5	1.0	1.0	2.0	1.0	1.0
A95-581022	1.3	1.0	2.0	1.5	1.0	1.0
A95-581028	1.3	1.0	1.0	1.6	1.0	1.5
A95-582003	1.4	1.0	1.0	1.5	1.0	1.0
A95-582004	1.3	1.0	1.0	1.8	1.0	1.0
A95-582006	1.3	1.0	2.0	1.4	1.0	1.0
A95-585061	1.4	1.0	1.0	1.5	1.5	1.5
HC92-1606	1.2	1.0	1.0	1.4	1.0	1.0
HC92-1799	1.4	1.0	1.0	1.5	1.0	1.0
U95-2113	1.5	1.0	1.0	1.5	1.0	1.5
U95-2114	1.2	1.0	1.0	1.4	1.0	1.0
U95-2135	1.3	1.0	1.0	1.5	1.0	1.0
U95-2219	1.1	1.0	1.0	1.5	1.5	1.0
U95-2233	1.3	2.0	1.0	1.2	1.0	1.0
U95-2236	1.2	1.0	1.0	1.4	1.0	1.5
U95-2336	1.3	1.0	1.0	1.2	1.0	1.5
U95-2417	1.2	1.0	1.0	1.4	1.0	1.0
U95-2418	1.4	1.0	1.0	1.5	1.0	1.0
U95-2420	1.4	1.0	1.0	1.4	1.0	1.5
U95-2422	1.4	1.0	1.0	2.0	1.0	1.0
U95-2424	1.4	1.0	1.0	1.2	1.0	2.0
U95-2435	1.3	1.0	1.0	1.2	1.0	1.0
U95-2723	1.4	1.0	1.0	1.4	1.0	1.0

PRELIMINARY TEST IIA, 1996

SEED QUALITY (score)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	2.0	1.0	1.0	1.0	1.0	2.0
IA2022 (L)	1.5	2.5	1.0	1.0	1.0	3.0
Marcus 95 (I)	1.0	2.0	1.0	1.0	1.5	2.0
A95-482024	1.0	2.0	1.5	1.0	1.5	1.0
A95-485004	2.0	1.5	1.0	2.0	1.0	3.0
A95-485008	1.0	1.5	1.5	2.0	1.5	4.0
A95-485019	1.5	2.5	1.0	2.0	1.5	3.0
A95-485020	1.0	1.5	1.0	1.0	1.0	2.0
A95-485023	1.0	2.0	1.0	1.0	1.5	4.0
A95-581007	2.0	1.5	1.0	2.0	1.0	3.0
A95-581009	2.0	2.5	1.0	2.0	1.5	3.0
A95-581016	2.5	2.5	1.0	1.0	1.0	2.0
A95-581022	1.0	1.5	1.0	1.0	1.0	2.0
A95-581028	1.0	1.5	1.0	2.0	1.0	2.0
A95-582003	1.5	2.5	1.0	2.0	1.0	2.0
A95-582004	1.5	1.5	1.0	1.0	1.0	3.0
A95-582006	1.0	1.5	1.0	1.0	1.0	2.0
A95-585061	2.0	2.0	1.0	1.0	1.0	2.0
HC92-1606	1.0	1.5	1.0	1.0	1.5	2.0
HC92-1799	2.0	1.5	1.0	1.0	1.0	3.0
U95-2113	2.5	1.5	1.0	1.0	1.0	3.0
U95-2114	1.0	1.5	1.0	1.0	1.0	2.0
U95-2135	2.0	2.0	1.0	1.0	1.0	2.0
U95-2219	1.0	1.5	1.0	1.0	1.0	1.0
U95-2233	2.0	1.5	1.0	1.0	1.0	2.0
U95-2236	1.0	1.0	1.0	1.0	1.5	2.0
U95-2336	1.5	2.0	1.0	1.0	1.0	2.0
U95-2417	1.5	1.5	1.0	1.0	1.0	2.0
U95-2418	2.0	2.0	1.0	1.0	1.5	2.0
U95-2420	1.5	1.5	1.0	1.0	1.0	3.0
U95-2422	1.5	2.0	1.0	1.0	1.0	3.0
U95-2424	1.5	2.0	1.0	1.0	1.0	3.0
U95-2435	2.0	2.0	1.0	1.0	1.0	2.0
U95-2723	1.0	2.0	1.0	1.0	2.5	2.0

PRELIMINARY TEST IIA, 1996

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	16.7	18.6	17.4	16.4	16.0	14.6
IA2022 (L)	14.8	16.2	13.9	16.6	15.0	15.7
Marcus 95 (I)	16.4	17.4	17.5	14.6	15.4	17.4
A95-482024	17.6	19.0	17.2	18.4	16.8	15.5
A95-485004	18.0	18.5	17.3	20.0	18.3	16.8
A95-485008	14.5	14.8	13.2	15.0	14.9	15.1
A95-485019	16.2	18.2	16.2	18.8	16.9	14.7
A95-485020	15.9	17.4	15.6	17.5	15.4	15.3
A95-485023	15.4	17.0	15.6	16.5	14.6	15.1
A95-581007	17.0	17.9	17.0	17.4	16.7	15.2
A95-581009	14.9	15.8	14.3	15.7	15.0	13.9
A95-581016	15.9	17.0	14.9	16.2	15.5	14.6
A95-581022	15.8	18.0	15.3	18.4	15.1	15.4
A95-581028	14.1	13.8	13.6	14.5	13.9	14.5
A95-582003	17.1	18.6	15.7	19.3	16.0	15.5
A95-582004	17.6	18.9	18.6	18.4	16.5	17.4
A95-582006	14.8	16.4	14.2	15.7	14.2	14.2
A95-585061	14.4	16.3	14.8	12.8	13.7	13.0
HC92-1606	15.2	16.3	14.0	15.1	16.1	15.2
HC92-1799	14.0	15.4	13.4	14.7	15.5	11.7
U95-2113	15.1	16.4	15.2	15.5	15.0	13.2
U95-2114	15.8	17.6	14.4	17.3	16.5	15.2
U95-2135	16.7	19.4	17.5	17.6	17.0	14.0
U95-2219	16.6	17.6	16.4	18.2	15.1	14.6
U95-2233	18.6	20.5	17.5	18.8	19.1	17.5
U95-2236	15.9	17.9	16.0	16.2	14.6	14.8
U95-2336	15.7	17.0	15.3	16.2	16.3	14.6
U95-2417	15.1	16.8	14.8	15.1	15.6	15.3
U95-2418	15.8	18.0	16.8	15.8	13.9	14.9
U95-2420	15.9	16.9	16.0	16.7	16.0	15.2
U95-2422	15.0	15.8	14.8	15.6	15.2	13.9
U95-2424	15.5	16.8	15.4	15.1	15.5	16.4
U95-2435	15.3	17.2	15.0	15.2	15.3	14.5
U95-2723	13.5	14.6	12.4	13.9	11.9	13.1

PRELIMINARY TEST IIA, 1996

SEED SIZE (g/100)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD
IA2021 (II)	19.3	16.5	16.5	14.7		16.7
IA2022 (L)	14.9	15.0	13.0	13.7		13.6
Marcus 95 (I)	18.2	17.9	14.5	14.8		16.7
A95-482024	17.4	19.4	17.0	17.0		17.8
A95-485004	17.9	19.5	16.5	17.2		18.4
A95-485008	16.2	14.9	13.0	13.3		14.5
A95-485019	16.9	17.1	14.0	13.0		16.0
A95-485020	16.9	17.7	13.5	13.4		16.2
A95-485023	15.4	16.8	13.5	13.5		16.2
A95-581007	18.8	19.4	15.0	15.4		17.0
A95-581009	15.4	16.9	13.0	13.4		15.2
A95-581016	16.9	16.9	15.5	15.1		16.1
A95-581022	14.6	17.7	14.5	15.4		13.7
A95-581028	15.9	15.6	12.0	12.3		14.8
A95-582003	18.0	18.9	15.0	15.4		18.5
A95-582004	19.4	18.9	15.0	13.9		19.0
A95-582006	15.7	16.6	12.5	13.8		15.1
A95-585061	16.3	16.2	13.5	13.1		14.2
HC92-1606	16.8	16.5	13.0	14.2		14.6
HC92-1799	14.6	14.4	12.5	13.4		14.2
U95-2113	17.1	16.6	14.0	13.6		14.7
U95-2114	16.9	17.5	14.5	14.1		14.1
U95-2135	17.6	18.6	14.5	14.6		16.3
U95-2219	17.7	17.4	15.5	15.7		18.0
U95-2233	18.7	19.9	17.0	17.9		18.7
U95-2236	16.7	18.7	13.0	14.8		15.9
U95-2336	16.9	16.2	13.5	13.3		17.8
U95-2417	15.4	16.6	12.5	14.2		15.1
U95-2418	16.8	17.1	13.5	15.3		15.6
U95-2420	16.8	17.3	14.0	14.5		15.8
U95-2422	16.5	18.1	13.0	14.4		12.3
U95-2424	16.7	16.3	14.0	14.0		14.5
U95-2435	17.4	16.9	13.0	13.6		14.6
U95-2723	13.5	15.0	12.5	12.5		15.9

PRELIMINARY TEST IIA, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Ingham Co. MI	Hoytville OH
IA2021 (II)	40.6	40.1	39.7	38.9	43.5	41.0
IA2022 (L)	42.4	42.4	42.3	41.8	42.6	42.8
Marcus 95 (I)	42.0	41.8	41.3	40.6	44.2	42.2
A95-482024	42.3	42.2	41.5	41.4	44.7	41.5
A95-485004	42.8	43.0	43.5	41.8	42.2	43.5
A95-485008	41.4	41.4	40.8	40.0	42.6	42.2
A95-485019	41.8	41.6	41.4	40.5	43.1	42.2
A95-485020	40.9	40.9	41.2	39.8	42.1	40.3
A95-485023	43.1	42.6	43.0	41.7	46.4	41.8
A95-581007	41.0	41.1	41.6	38.4	43.8	40.2
A95-581009	41.2	41.3	41.0	39.5	42.9	41.5
A95-581016	41.9	41.8	42.4	40.3	43.2	41.6
A95-581022	41.6	41.6	41.9	39.8	43.4	41.5
A95-581028	41.8	41.9	41.4	40.5	42.8	42.2
A95-582003	41.6	41.1	41.6	41.3	43.3	40.7
A95-582004	43.3	42.5	43.7	42.5	45.1	42.5
A95-582006	41.8	41.7	41.4	40.5	43.7	41.5
A95-585061	41.8	43.0	41.6	39.4	44.3	40.6
HC92-1606	42.5	42.0	43.2	41.0	43.8	42.3
HC92-1799	42.5	43.5	42.0	41.7	43.7	41.8
U95-2113	40.3	40.6	39.7	38.9	42.3	39.9
U95-2114	42.0	41.3	41.1	40.7	44.2	42.7
U95-2135	42.2	43.2	40.8	39.9	45.5	41.4
U95-2219	43.4	43.2	43.6	41.3	45.0	43.7
U95-2233	42.1	42.1	41.8	41.0	42.6	43.2
U95-2236	42.4	42.3	41.4	41.6	44.9	41.8
U95-2336	40.1	40.2	39.9	38.8	41.8	39.9
U95-2417	41.0	41.4	40.5	39.8	42.7	40.7
U95-2418	41.3	41.3	41.2	40.8	41.9	41.2
U95-2420	40.3	40.1	40.8	38.4	41.6	40.5
U95-2422	40.7	36.7	41.2	38.7	45.2	41.6
U95-2424	40.5	40.4	39.6	39.2	42.2	40.9
U95-2435	40.4	41.1	40.1	37.5	41.8	41.3
U95-2723	46.2	46.7	44.5	45.2	49.1	45.5

PRELIMINARY TEST IIA, 1996

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Ingham Co. MI	Hoytville OH
IA2021 (II)	22.3	21.1	22.7	22.9	21.3	23.6
IA2022 (L)	20.4	19.7	21.1	20.3	19.9	21.0
Marcus 95 (I)	21.8	20.8	22.6	22.4	20.6	22.4
A95-482024	20.6	19.9	21.8	20.1	19.3	21.7
A95-485004	20.1	19.0	20.7	19.6	20.6	20.6
A95-485008	21.4	20.8	22.4	21.6	20.1	22.1
A95-485019	20.9	19.8	21.3	21.3	20.5	21.8
A95-485020	21.7	20.3	21.8	21.6	21.5	23.2
A95-485023	20.2	19.7	20.6	20.3	18.7	21.9
A95-581007	21.0	20.2	21.4	21.8	19.8	21.8
A95-581009	20.8	19.8	21.6	21.3	19.8	21.4
A95-581016	21.3	20.0	21.9	21.6	20.6	22.3
A95-581022	20.7	19.9	21.3	21.0	19.5	21.6
A95-581028	21.6	20.2	22.5	21.5	21.1	22.7
A95-582003	20.7	19.9	21.1	20.6	20.0	21.7
A95-582004	20.6	20.3	20.9	20.7	19.4	21.7
A95-582006	20.7	19.6	21.1	21.6	19.9	21.3
A95-585061	21.1	19.6	21.4	22.0	19.7	22.8
HC92-1606	21.5	20.6	22.1	21.4	21.2	22.2
HC92-1799	20.8	19.7	21.5	21.1	20.3	21.5
U95-2113	22.3	21.1	22.9	22.2	22.1	23.4
U95-2114	20.4	19.4	21.2	20.9	19.3	21.3
U95-2135	20.3	19.1	21.3	21.1	18.4	21.4
U95-2219	20.4	19.4	21.0	21.0	19.6	21.2
U95-2233	21.2	20.3	22.0	21.6	20.5	21.8
U95-2236	20.9	20.1	21.3	21.1	19.9	22.1
U95-2336	22.1	21.2	22.5	22.6	21.4	23.0
U95-2417	21.9	20.3	22.7	21.8	21.7	23.0
U95-2418	21.1	20.2	21.7	21.0	20.4	22.4
U95-2420	22.1	21.1	22.8	22.9	21.6	22.1
U95-2422	21.2	20.6	22.1	21.7	19.3	22.1
U95-2424	22.2	21.5	23.2	22.1	20.8	23.2
U95-2435	22.2	21.0	22.9	22.9	21.2	23.1
U95-2723	17.9	17.9	19.4	17.3	15.7	19.1

PRELIMINARY TEST IIB, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	F5	
3.	Marcus 95 (I)	[Marcus(5) x Elgin 87] x [Marcus(5) x Preston BC-11-1]	BC4 F2	Rps1-k, Rps6
4.	C1936	Burlison x CX1334-323	F5	
5.	C1937	Burlison x CX1334-323	F5	
6.	C1938	Burlison x CX1334-323	F5	
7.	C1939	CRS3-998-24-1 x C1813	F5	
8.	E94172	Hack x AgriPro AP1989	F4	
9.	E94178	A85-293032 x AgriPro AP1989	F4	
10.	E94207	E84165 x IA2007	F4	
11.	E94349	E90009 x Archer	F4	
12.	E94476	Hoyt x Conrad	F4	
13.	E94487	E90009 x Archer	F4	
14.	E94517	Burlison x E87223	F4	
15.	E94804	Northrup King S23-12 x Pella 86	F4	
16.	HF94-051	GR8936 x LN84-18266	F5	Rps1-k
17.	HF94-052	GR8936 x HM8847	F5	Rps1-k
18.	LN92-5668	Burlison x Elgin 87	F5	
19.	LN93-14313	Burlison x LN85-6800	F5	
20.	LN93-14340	Burlison x LN85-6800	F5	
21.	LN93-14408	Burlison x LN85-6800	F5	
22.	LN93-14465	Burlison x LN86-983	F5	
23.	LN93-14534	Burlison x LN86-983	F5	
24.	LN93-14566	Burlison x LN86-983	F5	
25.	LN93-14593	Burlison x LN86-983	F5	
26.	SD93-828	Parker x Archer	F5	
27.	SD93-851	Parker x Archer	F5	
28.	SD93-1157	Parker x Steele	F5	
29.	SD93-1175	Parker x Steele	F5	
30.	SD93-1188	Parker x Steele	F5	
31.	SD93-1338	Sturdy x Glenwood	F5	
32.	SD93-1413	Archer x Hodgson 78	F5	
33.	SD(M)93-3515	Parker x Archer	F5	

PRELIMINARY TEST IIB, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	BSR Resistance % Incid.	BSR Resistance % Sev.
IA2021 (II)	WTBSYBlI	3.5	1		
IA2022 (L)	PGBSYIbI	4.2	1		
Marcus 95 (I)	WTTDYBfI	3.8	1		
C1936	WTTDYBlD	2.9	1		
C1937	WTTDYBlI	3.1	1		
C1938	WTTDYBlI	2.8	1		
C1939	PTBSYBlI	3.6	1		
E94172	WGBIYBfI	4.0	1		
E94178	P+WGBILYHI	3.6	1		
E94207	PTTDYBfI	4.1	1		
E94349	PGTDYIbI	4.1	1		
E94476	PTTSYHH	4.5	1		
E94487	PGBDYIbI	3.5	1		
E94517	WGBDYHI	4.2	1		
E94804	PG+TTDYHI	3.9	1		
HF94-051	WTTDYBlI	3.9	1		
HF94-052	WTTSYBlI	3.9	1		
LN92-5668	WTTDYBlI	2.8	2		
LN93-14313	WGTDYBfI	3.4	1		
LN93-14340	PGTDYIbI	3.2	1		
LN93-14408	PGTDYIbI	3.0	1		
LN93-14465	WTTIYBlI	3.0	1		
LN93-14534	PGTDYIbI	2.8	1		
LN93-14566	PTTIYBlI	3.4	2		
LN93-14593	WTTDYBlI	2.6	1		
SD93-828	PGBDYIbI	3.2	1	55	21
SD93-851	WGB+TDYBfI	3.8	1	20	22
SD93-1157	PGTDYIbI	3.3	1		
SD93-1175	PGTIYIbI	3.5	2		
SD93-1188	PGTDYIbI	3.1	1		
SD93-1338	PGTIYIbI	3.5	2		
SD93-1413	PGTDYIbI	3.8	2	10	29
SD(M)93-3515	PGBDYBfI	2.9	2	5	9

PRELIMINARY TEST IIB, 1996

DISEASE DATA

Strain	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	PSB n %	PSB Vinc. n %
IA2021 (II)	R	28	60	2	
IA2022 (L)	S	10	56	4	
Marcus 95 (I)	R	22	52	4	
C1936	R	0	60	0	70
C1937	R	0	66	0	70
C1938	R	6	54	0	58
C1939	R	6	52	4	52
E94172	R	0	60	2	
E94178	R	0	68	6	
E94207	H	0	64	4	
E94349	S	38	44	0	
E94476	H	0	48	2	
E94487	H	0	42	0	
E94517	R	10	14	2	
E94804	R	0	18	0	
HF94-051	R	0	30	0	
HF94-052	R	0	12	2	
LN92-5668	R	8	44	0	
LN93-14313	R	0	38	0	
LN93-14340	H	0	26	6	
LN93-14408	R	0	52	2	
LN93-14465	H	0	66	0	
LN93-14534	H	0	56	0	
LN93-14566	R	0	22	0	
LN93-14593	R	0	50	2	
SD93-828	R	42	16	0	
SD93-851	R	34	22	4	
SD93-1157	R	8	48	4	
SD93-1175	R	6	44	2	
SD93-1188	R	8	64	2	
SD93-1338	R	4	38	4	
SD93-1413	R	2	40	4	
SD(M)93-3515	S	20	48	0	

PRELIMINARY TEST IIB, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 10 Date	Lodging 11 Score	Plant Height 11 In.	Seed Quality 11 Score	Seed Size 11 g/100	Composition Protein 5 %	 Oil 5 %
IA2021 (II)	49.1	12	09/23	1.5	28	1.4	17.2	40.7	22.4
IA2022 (L)	53.2	1	4.6	1.6	34	1.2	15.1	41.8	20.4
Marcus 95 (I)	47.8	21	-1.3	1.6	28	1.5	16.7	42.0	21.5
C1936	46.5	28	4.8	1.4	29	1.1	19.0	44.4	19.4
C1937	49.1	12	4.5	1.4	29	1.1	19.0	45.0	19.2
C1938	49.4	9	4.7	1.5	30	1.2	19.1	44.4	19.4
C1939	46.0	29	4.7	1.5	29	1.2	15.5	44.9	19.1
E94172	50.7	2	2.9	1.4	32	1.3	17.9	40.8	21.1
E94178	43.4	32	5.5	1.4	30	1.5	15.8	40.2	20.9
E94207	46.6	27	4.1	1.6	31	1.2	14.8	42.0	21.3
E94349	49.5	7	1.6	1.5	31	1.2	16.4	41.4	20.9
E94476	43.0	33	3.3	1.7	30	1.4	13.3	40.9	21.1
E94487	50.7	2	2.3	1.8	33	1.5	15.0	40.9	20.9
E94517	50.1	4	5.0	1.8	32	1.6	14.1	40.5	20.7
E94804	49.8	5	2.9	1.6	32	1.6	18.5	40.7	21.1
HF94-051	49.5	7	8.2	1.7	30	1.3	17.0	42.5	20.7
HF94-052	47.9	20	5.5	1.8	29	1.4	15.4	41.4	20.7
LN92-5668	47.6	22	5.9	1.4	30	1.3	17.3	43.6	19.7
LN93-14313	45.7	30	1.8	1.9	31	1.2	14.9	43.8	19.8
LN93-14340	48.3	16	1.5	1.5	30	1.3	16.8	42.8	20.4
LN93-14408	47.6	22	2.9	1.5	31	1.2	16.4	44.1	20.4
LN93-14465	49.3	11	1.0	1.4	30	1.3	15.6	43.1	20.1
LN93-14534	48.2	17	-0.3	1.7	28	1.2	15.2	43.1	19.8
LN93-14566	48.1	18	-1.1	1.9	31	1.3	17.4	44.4	19.3
LN93-14593	49.1	12	1.5	1.9	31	1.3	17.4	43.3	19.6
SD93-828	49.6	6	-2.4	1.6	31	1.3	15.6	40.9	21.7
SD93-851	48.1	18	-0.6	1.9	30	1.6	17.3	41.8	21.5
SD93-1157	48.6	15	-1.3	1.5	31	1.3	15.9	41.5	20.6
SD93-1175	49.4	9	0.0	1.5	31	1.3	15.9	41.4	20.6
SD93-1188	46.9	26	-1.6	1.5	32	1.3	15.8	41.5	20.6
SD93-1338	47.6	22	-1.0	1.6	31	1.3	15.8	41.9	20.6
SD93-1413	47.2	25	-1.2	1.5	31	1.4	15.9	41.4	20.8
SD(M)93-3515	45.6	31	-1.4	1.5	30	1.6	16.4	41.1	20.7

119.0 Days After Planting

PRELIMINARY TEST IIB, 1996

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	49.1	64.9	64.2	30.5	42.6	33.2
IA2022 (L)	53.2	66.8	58.0	49.9	57.6	47.9
Marcus 95 (I)	47.8	60.8	59.2	31.5	39.4	40.2
C1936	46.5	58.7	52.0	33.9	45.1	33.9
C1937	49.1	64.6	54.5	32.2	48.8	32.8
C1938	49.4	62.3	51.4	37.2	50.3	33.8
C1939	46.0	52.2	51.8	41.5	46.6	36.1
E94172	50.7	56.4	61.1	44.3	42.4	39.2
E94178	43.4	59.3	52.3	43.1	33.0	34.8
E94207	46.6	53.5	55.7	41.3	50.7	34.1
E94349	49.5	54.6	59.7	45.5	52.7	48.1
E94476	43.0	50.6	54.7	37.4	37.3	27.7
E94487	50.7	53.4	55.4	43.7	51.1	44.8
E94517	50.1	60.2	48.4	41.2	51.8	50.5
E94804	49.8	67.8	54.7	40.7	49.3	37.7
HF94-051	49.5	63.0	50.0	37.9	50.6	43.0
HF94-052	47.9	56.6	52.7	46.6	46.7	29.9
LN92-5668	47.6	50.7	51.7	43.2	52.0	36.6
LN93-14313	45.7	57.5	49.9	32.9	47.2	35.1
LN93-14340	48.3	64.4	54.3	23.3	56.2	39.9
LN93-14408	47.6	49.7	48.8	32.4	51.1	33.3
LN93-14465	49.3	53.0	55.7	33.3	49.8	38.2
LN93-14534	48.2	55.4	57.6	30.9	54.3	32.8
LN93-14566	48.1	57.7	62.2	31.9	46.8	34.2
LN93-14593	49.1	62.1	52.5	33.6	53.1	44.2
SD93-828	49.6	55.5	55.7	43.0	49.9	43.2
SD93-851	48.1	59.7	59.8	36.7	37.8	42.6
SD93-1157	48.6	58.6	55.4	42.2	51.5	36.7
SD93-1175	49.4	60.3	56.9	42.5	49.3	38.4
SD93-1188	46.9	55.1	56.1	34.4	50.6	27.6
SD93-1338	47.6	48.6	54.8	37.5	55.2	32.8
SD93-1413	47.2	58.3	53.2	33.6	53.7	34.2
SD(M)93-3515	45.6	48.6	61.5	32.8	45.8	34.1
C.V. (%)		8.4	6.0	17.8	7.1	11.8
L.S.D. (5%)		9.7	6.7	13.7	6.9	12.2
Row Sp. (In.)		27	27	34	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 1996

YIELD (bu/a)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	57.8	66.2	53.2	20.7		58.1
IA2022 (L)	51.0	61.0	45.8	26.8		67.0
Marcus 95 (I)	56.1	63.8	37.0	33.9		55.6
C1936	43.5	66.4	51.2	22.9		56.9
C1937	48.8	62.8	49.8	37.5		58.8
C1938	53.6	61.9	53.0	35.4		55.5
C1939	46.5	59.9	48.1	22.7		54.5
E94172	53.1	67.3	52.3	34.9		55.9
E94178	48.1	56.0	38.4	24.9		44.5
E94207	50.9	54.0	43.4	31.9		50.5
E94349	57.5	55.3	44.5	24.5		52.8
E94476	56.0	61.6	37.5	17.6		49.2
E94487	52.2	70.0	56.8	23.8		55.8
E94517	51.5	62.1	49.5	35.2		51.0
E94804	58.5	63.5	39.9	30.5		55.8
HF94-051	50.1	59.5	50.2	34.8		55.4
HF94-052	53.1	61.7	42.7	30.1		58.5
LN92-5668	52.4	66.5	47.3	21.3		54.7
LN93-14313	47.5	61.1	41.1	36.0		48.9
LN93-14340	48.4	64.6	46.9	32.7		52.7
LN93-14408	55.0	64.3	48.7	36.6		56.4
LN93-14465	53.7	63.9	51.6	34.3		59.6
LN93-14534	44.3	66.0	46.4	40.6		54.1
LN93-14566	51.7	68.9	49.0	27.4		50.7
LN93-14593	46.3	56.8	50.9	36.9		54.7
SD93-828	56.8	67.1	43.7	29.7		51.2
SD93-851	55.9	64.3	38.3	37.5		48.1
SD93-1157	56.2	66.8	38.0	29.4		50.8
SD93-1175	49.6	69.9	44.5	33.0		49.1
SD93-1188	50.6	70.3	41.9	31.9		50.1
SD93-1338	50.7	68.1	46.4	33.0		49.2
SD93-1413	49.3	62.6	39.2	34.3		53.7
SD(M)93-3515	49.3	71.0	43.1	23.8		46.2
C.V. (%)	6.7	6.1	8.3	22.7		7.2
L.S.D. (5%)	9.9	11.2	7.5	9.3		7.9
Row Sp. (In.)	30	30	30	30		30
Rows/Plot	4	4	4	4		4
Reps	2	2	2	2		2

PRELIMINARY TEST IIB, 1996

YIELD RANK

Strain	Yield Rank	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	12	3	1	32	28	27
IA2022 (L)	1	2	8	1	1	3
Marcus 95 (I)	21	9	7	30	30	9
C1936	28	14	26	21	27	24
C1937	12	4	20	28	21	28
C1938	9	7	29	18	16	25
C1939	29	28	27	11	25	17
E94172	2	20	4	4	29	11
E94178	32	13	25	7	33	19
E94207	27	25	12	12	13	22
E94349	7	24	6	3	7	2
E94476	33	30	18	17	32	31
E94487	2	26	15	5	11	4
E94517	4	11	33	13	9	1
E94804	5	1	18	14	19	14
HF94-051	7	6	30	15	14	7
HF94-052	20	19	23	2	24	33
LN92-5668	22	29	28	6	8	16
LN93-14313	30	18	31	25	22	18
LN93-14340	16	5	21	33	2	10
LN93-14408	22	31	32	27	11	26
LN93-14465	11	27	12	24	18	13
LN93-14534	17	22	9	31	4	28
LN93-14566	18	17	2	29	23	20
LN93-14593	12	8	24	22	6	5
SD93-828	6	21	12	8	17	6
SD93-851	18	12	5	19	31	8
SD93-1157	15	15	15	10	10	15
SD93-1175	9	10	10	9	19	12
SD93-1188	26	23	11	20	14	32
SD93-1338	22	32	17	16	3	28
SD93-1413	25	16	22	22	5	20
SD(M)93-3515	31	32	3	26	26	22

PRELIMINARY TEST IIB, 1996

YIELD RANK

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	2	12	1	32		5
IA2022 (L)	18	27	18	24		1
Marcus 95 (I)	6	18	33	13		11
C1936	33	11	5	29		6
C1937	26	20	8	2		3
C1938	11	23	2	7		12
C1939	30	28	12	30		16
E94172	13	7	3	9		8
E94178	28	31	29	25		33
E94207	19	33	22	17		25
E94349	3	32	19	26		19
E94476	7	25	32	33		28
E94487	15	3	15	27		9
E94517	17	22	9	8		22
E94804	1	19	27	19		10
HF94-051	22	29	7	10		13
HF94-052	12	24	24	20		4
LN92-5668	14	10	13	31		14
LN93-14313	29	26	26	6		30
LN93-14340	27	14	14	16		20
LN93-14408	9	15	11	5		7
LN93-14465	10	17	4	11		2
LN93-14534	32	13	16	1		17
LN93-14566	16	5	10	23		24
LN93-14593	31	30	6	4		15
SD93-828	4	8	21	21		21
SD93-851	8	16	30	2		31
SD93-1157	5	9	31	22		23
SD93-1175	23	4	19	14		29
SD93-1188	21	2	25	17		26
SD93-1338	20	6	16	14		27
SD93-1413	25	21	28	11		18
SD(M)93-3515	24	1	23	27		32

PRELIMINARY TEST IIB, 1996

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	09/23	09/21		09/15	09/27	09/16
IA2022 (L)	4.6	6		6	5	8
Marcus 95 (I)	-1.3	-3		-1	-1	0
C1936	4.8	6		2	7	3
C1937	4.5	6		3	6	3
C1938	4.7	8		3	7	3
C1939	4.7	7		5	6	7
E94172	2.9	2		3	2	3
E94178	5.5	7		5	8	5
E94207	4.1	6		3	6	2
E94349	1.6	0		2	2	5
E94476	3.3	4		2	5	1
E94487	2.3	3		3	2	4
E94517	5.0	8		4	5	9
E94804	2.9	2		3	3	4
HF94-051	8.2	10		9	9	9
HF94-052	5.5	8		6	7	7
LN92-5668	5.9	7		5	6	3
LN93-14313	1.8	0		-1	5	3
LN93-14340	1.5	2		-2	4	5
LN93-14408	2.9	2		0	5	5
LN93-14465	1.0	0		-2	3	2
LN93-14534	-0.3	-2		-2	2	2
LN93-14566	-1.1	-4		-1	1	-1
LN93-14593	1.5	2		-1	3	1
SD93-828	-2.4	-2		-2	-1	0
SD93-851	-0.6	-1		-3	-2	-1
SD93-1157	-1.3	-2		-3	-1	1
SD93-1175	0.0	2		-3	0	2
SD93-1188	-1.6	0		-3	-1	-2
SD93-1338	-1.0	-2		-3	0	-1
SD93-1413	-1.2	0		-3	0	0
SD(M)93-3515	-1.4	-2		-1	-2	-1
Date Planted	05/27	05/14		05/22	06/16	05/16
Days to Mature	119.0	130		116	103	123

PRELIMINARY TEST IIB, 1996

MATURITY (date)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	09/23	09/18	10/05	09/25	10/02	09/23
IA2022 (L)	5	7	1	-3	5	6
Marcus 95 (I)	-3	-1	-4	2	0	-2
C1936	7	4	8	-3	6	8
C1937	7	4	8	-4	5	7
C1938	6	6	8	-6	5	7
C1939	5	4	4	-1	3	7
E94172	3	5	3	2	2	4
E94178	5	7	7	1	5	5
E94207	4	7	5	0	3	5
E94349	3	1	-1	1	2	1
E94476	5	4	5	1	1	5
E94487	1	4	1	1	2	2
E94517	4	7	8	-4	2	7
E94804	4	5	3	-1	1	5
HF94-051	7	9	9	-3	13	10
HF94-052	6	6	5	1	2	7
LN92-5668	6	4	8	2	10	8
LN93-14313	2	5	1	-3	2	4
LN93-14340	2	0	1	-2	2	3
LN93-14408	4	3	4	1	2	3
LN93-14465	3	1	1	-2	1	3
LN93-14534	1	-2	0	-2	-2	2
LN93-14566	-4	-3	2	-1	1	-1
LN93-14593	3	2	3	-1	2	1
SD93-828	-2	-2	-6	-6	-3	0
SD93-851	-2	-1	1	1	-1	3
SD93-1157	0	-2	-4	2	-4	0
SD93-1175	2	0	-5	3	-3	2
SD93-1188	0	-1	-5	-3	-3	2
SD93-1338	3	-2	-3	-3	-1	2
SD93-1413	2	-2	-6	1	-4	0
SD(M)93-3515	-2	-1	-6	4	-3	0
Date Planted	05/23	05/20	06/24	06/05	06/10	05/01
Days to Mature	123	121	103	112	114	145

PRELIMINARY TEST IIB, 1996

LODGING (score)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	1.5	1.6	2.5	1.1	1.0	1.1
IA2022 (L)	1.6	1.6	1.8	1.0	1.0	1.4
Marcus 95 (I)	1.6	1.3	2.5	1.0	1.0	1.0
C1936	1.4	1.2	2.8	1.0	1.0	1.0
C1937	1.4	1.3	2.0	1.0	1.0	1.0
C1938	1.5	1.5	2.5	1.0	1.0	1.0
C1939	1.5	1.6	2.8	1.0	1.0	1.1
E94172	1.4	1.6	2.0	1.0	1.0	1.0
E94178	1.4	1.5	2.3	1.0	1.0	1.0
E94207	1.6	1.3	2.0	1.0	1.0	1.0
E94349	1.5	1.5	2.0	1.0	1.0	1.0
E94476	1.7	1.8	2.8	1.0	1.0	1.0
E94487	1.8	2.0	3.3	1.0	1.0	1.6
E94517	1.8	2.1	2.8	1.0	1.0	1.0
E94804	1.6	1.6	2.5	1.0	1.0	1.0
HF94-051	1.7	1.7	2.8	1.0	1.0	1.5
HF94-052	1.8	1.8	2.5	1.0	1.3	1.5
LN92-5668	1.4	1.3	2.0	1.0	1.0	1.4
LN93-14313	1.9	1.5	3.0	1.0	1.3	1.1
LN93-14340	1.5	1.6	2.8	1.0	1.0	1.0
LN93-14408	1.5	1.4	2.3	1.0	1.0	1.0
LN93-14465	1.4	1.3	2.0	1.0	1.0	1.0
LN93-14534	1.7	1.4	3.0	1.0	1.0	1.0
LN93-14566	1.9	1.4	3.3	1.0	1.0	1.1
LN93-14593	1.9	1.7	2.5	1.0	1.3	1.0
SD93-828	1.6	1.3	2.8	1.0	1.0	1.0
SD93-851	1.9	2.0	2.8	1.0	1.0	1.4
SD93-1157	1.5	1.3	2.3	1.0	1.0	1.1
SD93-1175	1.5	1.5	2.8	1.0	1.0	1.1
SD93-1188	1.5	1.4	2.3	1.0	1.0	1.0
SD93-1338	1.6	1.3	2.3	1.0	1.0	1.0
SD93-1413	1.5	1.3	2.5	1.0	1.0	1.0
SD(M)93-3515	1.5	1.2	2.5	1.0	1.0	1.1

PRELIMINARY TEST IIB, 1996

LODGING (score)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	1.0	1.0	2.5	1.6	2.0	1.0
IA2022 (L)	2.0	1.0	2.0	1.7	2.0	2.0
Marcus 95 (I)	1.5	1.0	3.0	1.6	3.0	1.0
C1936	1.5	1.0	1.5	1.7	2.0	1.0
C1937	2.0	1.0	1.5	1.6	2.5	1.0
C1938	1.5	1.0	2.0	1.8	2.0	1.0
C1939	2.5	1.0	1.0	1.6	1.0	2.0
E94172	2.0	1.0	1.0	1.6	1.5	2.0
E94178	2.0	1.0	1.0	1.4	2.0	1.0
E94207	2.0	1.0	1.5	1.9	2.5	2.0
E94349	1.5	1.0	2.0	1.7	2.0	2.0
E94476	2.5	1.0	1.5	1.7	2.5	2.0
E94487	2.0	1.0	2.0	1.5	2.5	2.0
E94517	2.5	1.5	1.5	1.4	2.0	3.0
E94804	2.0	1.0	1.5	1.7	2.0	2.0
HF94-051	2.5	1.5	1.5	1.5	2.0	2.0
HF94-052	2.5	1.5	2.0	1.5	3.0	1.0
LN92-5668	1.5	1.0	1.5	2.1	2.0	1.0
LN93-14313	3.0	1.0	2.5	1.6	2.0	3.0
LN93-14340	1.0	1.0	2.0	1.6	2.0	2.0
LN93-14408	1.5	1.0	2.0	1.4	2.0	2.0
LN93-14465	1.5	1.0	1.5	1.5	1.5	2.0
LN93-14534	1.5	1.0	3.5	1.5	1.5	2.0
LN93-14566	1.0	1.0	4.5	1.6	2.5	2.0
LN93-14593	2.0	1.0	4.0	1.6	3.0	2.0
SD93-828	1.0	1.0	3.0	1.7	1.5	2.0
SD93-851	1.5	1.5	4.0	1.4	3.0	1.0
SD93-1157	1.0	1.0	3.0	1.5	1.0	2.0
SD93-1175	1.0	1.0	2.0	1.6	2.0	2.0
SD93-1188	1.0	1.0	3.0	1.5	1.5	2.0
SD93-1338	1.0	1.0	3.5	1.6	1.5	2.0
SD93-1413	1.5	1.0	1.5	1.7	1.5	2.0
SD(M)93-3515	1.5	1.0	1.5	1.5	2.5	2.0

PRELIMINARY TEST IIB, 1996

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	28	30	36	25	25	23
IA2022 (L)	34	40	42	31	38	29
Marcus 95 (I)	28	30	34	24	28	27
C1936	29	35	34	24	28	26
C1937	29	32	35	25	28	28
C1938	30	36	34	26	28	26
C1939	29	32	34	28	31	27
E94172	32	36	40	29	33	28
E94178	30	38	39	28	27	27
E94207	31	34	36	30	30	27
E94349	31	36	36	27	30	25
E94476	30	35	38	27	29	26
E94487	33	36	40	30	32	32
E94517	32	38	40	28	29	28
E94804	32	40	34	29	33	26
HF94-051	30	39	36	27	31	27
HF94-052	29	35	34	27	27	25
LN92-5668	30	31	36	29	27	25
LN93-14313	31	33	40	27	32	28
LN93-14340	30	36	36	21	30	24
LN93-14408	31	36	37	25	30	29
LN93-14465	30	32	35	23	30	25
LN93-14534	28	32	32	24	30	25
LN93-14566	31	31	38	25	30	26
LN93-14593	31	34	34	26	30	26
SD93-828	31	36	35	29	31	28
SD93-851	30	36	35	25	26	25
SD93-1157	31	34	36	30	30	28
SD93-1175	31	36	36	27	31	27
SD93-1188	32	36	38	25	31	24
SD93-1338	31	34	40	28	30	26
SD93-1413	31	35	35	26	32	27
SD(M)93-3515	30	34	36	25	32	26

PRELIMINARY TEST IIB, 1996

PLANT HEIGHT (inches)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	35	28	24	23	24	30
IA2022 (L)	42	35	29	20	30	36
Marcus 95 (I)	35	30	24	22	27	31
C1936	37	31	23	22	25	31
C1937	36	32	24	23	26	33
C1938	39	30	25	23	26	38
C1939	34	31	23	20	25	32
E94172	43	33	29	24	28	32
E94178	39	32	23	22	26	32
E94207	40	32	24	21	29	35
E94349	41	30	24	26	26	35
E94476	39	34	23	22	24	34
E94487	39	38	26	21	27	37
E94517	38	35	26	24	27	37
E94804	40	35	26	24	28	34
HF94-051	36	33	24	20	24	36
HF94-052	36	31	23	25	27	33
LN92-5668	38	30	25	24	25	35
LN93-14313	39	32	28	19	26	32
LN93-14340	40	34	28	21	26	34
LN93-14408	38	35	26	21	23	42
LN93-14465	41	34	27	21	25	37
LN93-14534	35	31	27	20	23	33
LN93-14566	41	32	28	23	28	35
LN93-14593	40	33	28	26	25	35
SD93-828	40	34	27	23	24	38
SD93-851	38	35	27	24	24	39
SD93-1157	40	32	27	22	26	38
SD93-1175	37	35	27	22	24	40
SD93-1188	44	35	31	24	25	37
SD93-1338	40	33	26	23	27	39
SD93-1413	35	35	25	22	26	41
SD(M)93-3515	40	35	25	19	27	36

PRELIMINARY TEST IIB, 1996

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	1.4	1.0	2.0	2.0	1.0	1.0
IA2022 (L)	1.2	1.0	1.0	1.4	1.0	1.0
Marcus 95 (I)	1.5	1.0	2.0	1.5	1.5	1.5
C1936	1.1	1.0	1.0	1.4	1.0	1.0
C1937	1.1	1.0	1.0	1.4	1.0	1.0
C1938	1.2	1.0	1.0	1.4	1.0	1.0
C1939	1.2	1.0	1.0	1.2	1.0	1.0
E94172	1.3	1.0	1.0	1.5	1.0	1.5
E94178	1.5	1.0	2.0	2.0	1.0	1.5
E94207	1.2	1.0	1.0	1.5	1.0	2.0
E94349	1.2	1.0	1.0	1.4	1.0	1.0
E94476	1.4	1.0	1.0	1.5	1.5	1.0
E94487	1.5	1.0	2.0	1.5	1.0	1.0
E94517	1.6	2.0	2.0	1.5	1.0	1.0
E94804	1.6	2.0	1.0	1.5	1.0	1.0
HF94-051	1.3	1.0	2.0	1.5	1.0	1.0
HF94-052	1.4	1.0	2.0	1.4	1.0	1.0
LN92-5668	1.3	1.0	1.0	1.4	1.0	1.0
LN93-14313	1.2	1.0	1.0	1.4	1.0	1.0
LN93-14340	1.3	1.0	1.0	1.2	1.0	1.0
LN93-14408	1.2	1.0	1.0	1.2	1.0	1.0
LN93-14465	1.3	1.0	1.0	1.4	1.0	1.5
LN93-14534	1.2	1.0	1.0	1.2	1.0	1.5
LN93-14566	1.3	1.0	1.0	1.4	1.0	1.5
LN93-14593	1.3	2.0	1.0	1.5	1.0	1.0
SD93-828	1.3	1.0	1.0	1.4	1.0	1.0
SD93-851	1.6	1.0	1.0	2.3	1.5	1.5
SD93-1157	1.3	1.0	1.0	1.4	1.0	1.0
SD93-1175	1.3	2.0	1.0	1.4	1.0	1.0
SD93-1188	1.3	1.0	1.0	1.4	1.0	1.5
SD93-1338	1.3	1.0	1.0	1.4	1.0	1.0
SD93-1413	1.4	1.0	1.0	1.4	1.0	1.0
SD(M)93-3515	1.6	1.0	2.0	2.3	1.0	1.5

PRELIMINARY TEST IIB, 1996

SEED QUALITY (score)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	1.5	1.0	1.0	1.0	1.5	2.0
IA2022 (L)	1.5	2.0	1.0	1.0	1.5	1.0
Marcus 95 (I)	2.0	1.0	1.0	1.0	1.5	2.0
C1936	1.0	1.0	1.0	1.0	1.5	1.0
C1937	1.0	2.0	1.0	1.0	1.0	1.0
C1938	1.0	1.5	1.0	1.0	1.0	2.0
C1939	2.0	1.0	1.0	1.0	1.0	2.0
E94172	2.0	1.0	1.0	1.0	1.0	2.0
E94178	1.0	2.5	1.0	2.0	1.0	2.0
E94207	1.0	1.0	1.0	1.0	1.0	2.0
E94349	1.5	1.5	1.0	1.0	1.0	2.0
E94476	1.5	1.5	1.0	1.0	1.5	3.0
E94487	1.5	1.0	1.5	1.0	1.5	3.0
E94517	1.5	1.0	2.0	2.0	2.0	2.0
E94804	2.0	2.5	1.0	2.0	2.0	2.0
HF94-051	1.5	1.5	1.0	1.0	1.0	2.0
HF94-052	1.0	1.0	1.0	1.0	1.5	3.0
LN92-5668	1.5	1.5	1.0	1.0	1.5	2.0
LN93-14313	1.0	1.5	1.0	1.0	1.5	2.0
LN93-14340	1.5	1.5	1.0	1.0	2.0	2.0
LN93-14408	1.0	1.5	1.0	1.0	1.0	2.0
LN93-14465	1.5	1.5	1.0	1.0	1.0	2.0
LN93-14534	1.5	1.0	1.0	1.0	1.0	2.0
LN93-14566	1.5	1.5	1.0	1.0	1.5	2.0
LN93-14593	1.0	1.5	1.0	1.0	1.0	2.0
SD93-828	1.0	1.5	1.0	2.0	1.0	2.0
SD93-851	1.5	2.0	1.5	1.0	2.0	2.0
SD93-1157	1.0	1.5	1.5	1.0	2.0	2.0
SD93-1175	1.0	1.5	1.0	1.0	1.5	2.0
SD93-1188	1.0	1.5	1.0	1.0	1.0	3.0
SD93-1338	1.0	2.0	1.0	1.0	1.5	2.0
SD93-1413	2.0	1.5	1.0	1.0	1.5	3.0
SD(M)93-3515	1.5	1.5	1.5	1.0	1.5	3.0

PRELIMINARY TEST IIB, 1996

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2021 (II)	17.2	18.8	17.7	15.6	17.9	17.3
IA2022 (L)	15.1	16.2	13.8	16.6	15.4	14.7
Marcus 95 (I)	16.7	16.8	16.8	16.1	16.7	15.8
C1936	19.0	20.3	18.2	17.1	20.0	18.0
C1937	19.0	19.9	17.5	18.2	19.5	17.7
C1938	19.1	20.5	18.0	18.2	19.5	18.0
C1939	15.5	16.7	14.5	16.4	15.5	15.2
E94172	17.9	18.0	16.6	21.0	18.2	17.7
E94178	15.8	18.6	15.8	16.3	16.1	13.8
E94207	14.8	16.5	14.2	15.6	14.6	14.2
E94349	16.4	16.6	15.4	18.2	16.5	17.2
E94476	13.3	13.2	12.8	13.5	12.9	12.2
E94487	15.0	16.2	13.6	17.1	14.4	15.3
E94517	14.1	15.2	13.2	13.8	14.4	13.6
E94804	18.5	22.0	18.1	20.5	19.1	17.2
HF94-051	17.0	18.2	14.9	16.6	17.4	17.6
HF94-052	15.4	16.4	13.8	15.5	15.1	14.7
LN92-5668	17.3	17.2	15.7	15.9	18.0	16.6
LN93-14313	14.9	15.8	14.6	14.3	16.4	15.1
LN93-14340	16.8	18.3	16.4	14.7	18.4	16.3
LN93-14408	16.4	18.2	15.8	15.7	16.4	15.0
LN93-14465	15.6	15.3	15.9	15.4	16.5	13.0
LN93-14534	15.2	18.5	14.4	14.7	15.4	14.9
LN93-14566	17.4	18.1	17.8	18.8	17.4	18.6
LN93-14593	17.4	19.8	17.2	15.5	17.5	18.2
SD93-828	15.6	16.6	15.4	17.2	14.7	18.1
SD93-851	17.3	19.2	17.2	17.9	15.7	17.2
SD93-1157	15.9	16.6	15.2	17.3	16.7	14.6
SD93-1175	15.9	17.9	15.4	17.1	16.5	14.3
SD93-1188	15.8	17.5	15.8	16.9	15.9	13.1
SD93-1338	15.8	16.9	15.0	17.7	16.8	13.8
SD93-1413	15.9	18.0	15.8	16.1	17.5	14.4
SD(M)93-3515	16.4	16.4	17.8	17.8	14.8	14.1

PRELIMINARY TEST IIB, 1996

SEED SIZE (g/100)

Strain	Ord NE	York NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres-ford SD
IA2021 (II)	20.2	17.4	16.0	14.0	17.8	16.6
IA2022 (L)	16.0	16.1	12.5	13.2	16.6	14.5
Marcus 95 (I)	18.0	18.5	15.5	14.3	18.5	16.9
C1936	21.2	20.6	17.5	14.9	21.2	19.8
C1937	21.0	21.0	17.5	17.1	20.3	19.2
C1938	20.6	21.2	17.5	16.7	20.3	20.0
C1939	15.7	17.4	14.5	12.9	16.8	14.6
E94172	18.5	19.4	16.0	15.2	17.9	18.4
E94178	16.1	17.7	14.5	13.2	17.0	14.4
E94207	16.4	15.7	13.0	12.5	15.8	14.1
E94349	16.6	17.0	14.5	14.3	17.4	16.3
E94476	15.5	15.0	12.0	12.0	13.4	13.7
E94487	16.2	16.8	12.5	12.5	14.8	15.2
E94517	14.6	16.1	12.5	12.7	15.3	14.2
E94804	20.4	19.2	16.0	14.6	17.1	19.5
HF94-051	18.7	18.3	16.0	14.2	18.6	17.0
HF94-052	17.3	16.6	14.0	13.5	16.7	16.1
LN92-5668	19.6	18.0	17.0	14.9	19.3	17.7
LN93-14313	14.8	16.4	13.0	12.8	15.7	14.8
LN93-14340	17.6	17.6	16.5	13.8	18.1	16.8
LN93-14408	19.6	18.0	14.0	13.6	16.3	17.9
LN93-14465	18.5	16.1	15.5	13.8	17.9	13.4
LN93-14534	15.1	16.5	14.0	12.9	14.9	15.5
LN93-14566	17.5	18.5	16.0	14.8	16.8	17.0
LN93-14593	18.6	18.3	16.0	15.1	18.0	17.1
SD93-828	17.1	16.6	13.0	12.3	15.7	14.6
SD93-851	18.9	17.7	15.5	15.2	18.5	17.5
SD93-1157	19.1	18.3	14.5	12.7	15.4	14.7
SD93-1175	17.8	18.1	14.5	12.6	15.2	15.3
SD93-1188	17.2	17.8	14.0	13.2	17.3	15.1
SD93-1338	17.1	16.9	15.0	13.1	15.8	15.6
SD93-1413	16.7	17.2	14.5	13.2	15.2	16.4
SD(M)93-3515	18.1	18.8	14.5	15.2	16.1	16.6

PRELIMINARY TEST IIB, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Ingham Co. MI	Hoytville OH
IA2021 (II)	40.7	41.3	41.2	38.3	44.1	38.7
IA2022 (L)	41.8	43.4	42.1	41.3	41.8	40.4
Marcus 95 (I)	42.0	41.8	42.0	41.0	44.7	40.3
C1936	44.4	45.1	45.4	43.4	46.7	41.3
C1937	45.0	45.2	44.9	44.9	45.5	44.6
C1938	44.4	44.9	45.1	44.1	44.5	43.6
C1939	44.9	43.2	46.4	44.4	46.5	44.2
E94172	40.8	40.6	39.9	39.2	44.4	39.7
E94178	40.2	40.9	40.7	39.2	42.1	37.9
E94207	42.0	43.2	42.3	40.4	43.0	41.0
E94349	41.4	41.4	41.7	41.7	42.8	39.3
E94476	40.9	41.3	41.3	40.5	43.0	38.3
E94487	40.9	41.4	41.1	39.8	42.1	39.9
E94517	40.5	41.0	40.1	39.6	42.3	39.5
E94804	40.7	41.5	41.2	39.8	42.0	39.2
HF94-051	42.5	43.8	41.3	41.9	43.4	42.3
HF94-052	41.4	42.4	41.6	40.8	41.1	41.3
LN92-5668	43.6	43.8	43.2	42.9	45.4	42.9
LN93-14313	43.8	43.4	44.5	42.8	46.4	42.0
LN93-14340	42.8	43.7	43.3	42.3	44.8	40.0
LN93-14408	44.1	44.2	44.3	43.5	46.4	42.3
LN93-14465	43.1	42.0	43.1	42.2	46.6	41.6
LN93-14534	43.1	43.2	42.5	42.1	43.6	43.9
LN93-14566	44.4	44.1	44.6	43.9	47.0	42.6
LN93-14593	43.3	42.8	43.5	43.2	43.9	43.2
SD93-828	40.9	41.4	40.9	39.3	43.1	39.6
SD93-851	41.8	40.8	41.8	41.8	43.0	41.4
SD93-1157	41.5	41.2	41.8	40.1	43.2	41.1
SD93-1175	41.4	40.4	41.5	40.2	43.4	41.4
SD93-1188	41.5	41.2	41.8	40.4	44.2	40.1
SD93-1338	41.9	41.8	42.5	40.8	43.6	40.7
SD93-1413	41.4	41.1	41.4	40.7	42.9	40.8
SD(M)93-3515	41.1	40.3	40.9	39.1	45.6	39.6

PRELIMINARY TEST IIB, 1996

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Ingham Co. MI	Hoytville OH
IA2021 (II)	22.4	20.8	22.7	23.4	20.8	24.4
IA2022 (L)	20.4	19.3	20.5	20.1	19.8	22.4
Marcus 95 (I)	21.5	20.6	21.8	22.3	20.2	22.8
C1936	19.4	18.3	19.8	19.2	18.6	21.0
C1937	19.2	18.5	19.7	19.1	19.2	19.4
C1938	19.4	18.2	19.7	19.1	19.5	20.4
C1939	19.1	18.9	19.4	19.1	18.0	20.2
E94172	21.1	20.1	21.7	21.4	19.7	22.4
E94178	20.9	19.6	21.1	20.8	20.3	22.5
E94207	21.3	19.5	21.7	21.7	21.0	22.4
E94349	20.9	20.1	21.4	20.5	19.9	22.4
E94476	21.1	19.8	21.8	20.7	20.2	23.0
E94487	20.9	20.0	20.9	20.7	20.1	22.6
E94517	20.7	19.9	21.8	20.5	19.5	21.9
E94804	21.1	20.2	21.2	21.3	20.2	22.5
HF94-051	20.7	19.2	20.7	21.1	20.7	21.6
HF94-052	20.7	19.5	21.2	20.5	20.4	21.9
LN92-5668	19.7	18.7	20.4	19.7	18.7	20.8
LN93-14313	19.8	19.0	20.0	20.0	19.0	21.1
LN93-14340	20.4	18.7	20.7	20.1	19.6	22.9
LN93-14408	20.4	19.6	20.9	19.9	19.7	22.1
LN93-14465	20.1	19.8	20.3	20.0	19.0	21.6
LN93-14534	19.8	18.8	20.6	19.7	19.4	20.3
LN93-14566	19.3	19.1	19.7	19.1	17.9	20.7
LN93-14593	19.6	19.0	19.8	19.2	19.3	20.5
SD93-828	21.7	20.8	21.6	22.2	20.7	23.3
SD93-851	21.5	21.1	22.2	21.3	20.6	22.3
SD93-1157	20.6	19.9	20.8	21.1	19.8	21.6
SD93-1175	20.6	20.2	20.7	21.3	19.3	21.6
SD93-1188	20.6	20.4	20.3	21.1	19.1	22.2
SD93-1338	20.6	19.9	20.4	21.3	19.7	21.8
SD93-1413	20.8	20.2	20.6	21.2	19.9	22.3
SD(M)93-3515	20.7	20.4	21.0	21.5	18.3	22.3

UNIFORM TEST III, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	A92-726034 (SCN)	L82C-1212 x Kenwood	1	?	
2.	Charleston (dt1)	HC74-634RE x HC78-676	7	F5	dt1
3.	IA2022 (II)	Asgrow A3205 x Dairyland DSR 304	-	F5	
4.	Iroquois (III)	LN81-1029 x Asgrow A2943	4	F5	Rps?
5.	Macon (L)	Sherman x Resnik	3	F5	
6.	A94-774016	Northrup King S29-39 x Pioneer P9303	PT IIIA	F5	
7.	A94-774018	Jacques J285 x Northrup King S29-39	PT IIIA	F5	
8.	A94-774021	Jacques J285 x Northrup King S29-39	PT IIIA	F5	
9.	A94-774063	Jacques J285 x Northrup King S29-39	PT IIIA	F5	
10.	HC88-15	Ripley x Essex	PT IIIB	F5	dt1
11.	HC89-2232	HC80-1944 x Asgrow A3127	2	F5	Dt1
12.	HC89-2436	HC80-1944 x Asgrow A3127	1	F5	Dt1
13.	HC90-3067	Hoyt x Resnik	PT IIIA	F5	Dt1
14.	HC91-3672	HC83-4532 x Resnik	PT IVA	F5	Dt1
15.	HF93-035	HM8632 x A86-204022	PT IIB	F5	
16.	HF93-038	HM8632 x A86-204022	PT IIB	F5	
17.	HF93-083	HS84-6224 x Chapman	PT IIB	F5	
18.	HF93-155	A86-203004 x Chapman	PT IIB	F5	
19.	HF93-194	HM8734 x Chapman	PT IIB	F5	
20.	HS92-2684	GR8936(2) x HM8580	1	BC1 F5	
21.	HS93-3762	GR8936 x Edison	PT IIIB	F5	Rps1-k
22.	HS93-3769	GR8936 x Edison	PT IIIB	F5	Rps1-k
23.	HS93-3775	GR8936 x Edison	PT IIIB	F5	Rps1-k
24.	HS93-3990	Edison x Asgrow A3733	PT IIIB	F5	
25.	SS90-745	Sherman x A83-271027	PT IIIA	F5	
26.	SS95-1000 (SCN)	LN86-4668 x Resnik	SCN III	?	
27.	U93-2412	M84-916 x Asgrow A3935	1	F6	
28.	U94-2236	Dairyland DSR 304 x Pioneer P9272	PT IIA	F7	
29.	U94-2306	Holt x Dairyland DSR 304	PT IIA	F7	
30.	U94-2429	Pioneer P9341 x ORC8805	PT IIA	F7	
31.	U94-2529	Pioneer P9341 x Uphoff 3100	PT IIA	F7	
32.	U94-2629	Parker x Uphoff 3100	PT IIA	F7	
33.	U94-3412	Parker x Holt	PT IIIB	F7	
34.	U94-3518	Agserv 8780 x Uphoff 3100	PT IIIB	F7	

* Number of years in test or name of 1995 test.

UNIFORM TEST III, 1996

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score		Emerg. Score	Shattering Score
		Hum-boldt	Lamber-ton	Humboldt	Man-hattan
A92-726034 (SCN)	WTBSYBlI	3.8	3.0	1	1
Charleston (dt1)	PTTSYBlD	3.4	4.0	1	1
IA2022 (II)	PGBSYIbI	4.6	3.7	3	2
Iroquois (III)	PGBDYIbI	3.9	3.3	3	1
Macon (L)	WTBDYBlI	4.1	3.7	1	1
A94-774016	PGBIYYI	3.0	3.0	1	1
A94-774018	PGBIYBfI	3.5	4.0	1	1
A94-774021	PG+TTDYHI	2.9	2.3	1	1
A94-774063	WTB+TIYBlI	4.1	3.7	2	1
HC88-15 (dt1)	PGTDYBfD	4.1	5.0	1	1
HC89-2232 (Dt1)	PTTDYBlI	4.0	4.3	1	1
HC89-2436 (Dt1)	PTTDYBlI	4.1	4.3	1	1
HC90-3067 (Dt1)	PTTDYBlI	3.3	3.3	1	1
HC91-3672 (Dt1)	P+WTTSYBlI	3.1	4.3	2	1
HF93-035	PGBSYIbI	4.0	4.3	2	1
HF93-038	PGBSYIbI	4.1	4.3	3	1
HF93-083	PGBSYIbI	3.9	2.3	3	1
HF93-155	PGBSYIbI	3.5	3.0	3	1
HF93-194	PGBSYGI	3.7	4.7	2	2
HS92-2684	WTTIYBlI	4.2	4.3	1	1
HS93-3762	WTTIYBlI	3.9	5.0	1	1
HS93-3769	WTTIYBlI	4.2	4.3	1	1
HS93-3775	PTTIYBlI	3.8	5.0	1	1
HS93-3990	PTTDYBlI	4.0	4.7	1	1
SS90-745	WGBDYYI	3.4	3.7	1	1
SS95-1000 (SCN)	PGBDYYI	4.5	4.7	1	1
U93-2412	WTBDIBrI	2.8	3.3	5	1
U94-2236	PGBDYBrI	3.6	4.0	3	2
U94-2306	WGBDYBlI	4.2	4.3	1	1
U94-2429	WGBDYBfI	3.8	4.7	3	1
U94-2529	WGTSYBlI	3.8	2.7	3	1
U94-2629	WGBDYBfI	4.4	4.3	5	2
U94-3412	WGTDYBlI	3.1	3.3	3	1
U94-3518	WGBDYBlI	3.6	4.0	2	1

UNIFORM TEST III, 1996

DISEASE DATA

Strain	BSR Resistance % Incid.	BSR Resistance % Sev.	PR Lafayette Race 7	Hard Seed Lafayette %	PS Lafayette a %	PSB n %	PSB Vinc. n %
A92-726034 (SCN)			R	0	10	0	34
Charleston (dt1)			S	0	8	0	56
IA2022 (II)			S	10	56	4	46
Iroquois (III)			S	0	48	2	36
Macon (L)			R	0	78	10	48
A94-774016	95	43	R	0	44	4	38
A94-774018	100	49	R	0	34	6	50
A94-774021	100	54	R	0	6	0	62
A94-774063	100	33	H	10	12	2	54
HC88-15 (dt1)			S	0	14	0	54
HC89-2232 (Dt1)			S	0	30	4	28
HC89-2436 (Dt1)			R	0	42	0	48
HC90-3067 (Dt1)			R	0	24	0	46
HC91-3672 (Dt1)			R	0	22	2	60
HF93-035			R	0	64	4	36
HF93-038			R	0	66	2	32
HF93-083			R	6	46	0	50
HF93-155			R	0	58	4	34
HF93-194			R	14	26	0	62
HS92-2684			R	0	68	0	58
HS93-3762			R	0	42	2	60
HS93-3769			R	0	6	0	66
HS93-3775			R	0	24	2	74
HS93-3990			R	0	30	0	48
SS90-745			R	0	36	0	50
SS95-1000 (SCN)			R	0	30	0	50
U93-2412			R	0	18	2	64
U94-2236			R	0	8	4	46
U94-2306			R	0	24	0	32
U94-2429			R	8	20	0	50
U94-2529			H	6	10	2	60
U94-2629			S	12	44	0	40
U94-3412			H	0	14	0	50
U94-3518			R	0	20	2	60

UNIFORM TEST III, 1996

SDS DATA

Strain	R6DI	R6DS	R6DX	DX Rank
A92-726034 (SCN)	-0.1	1.0	0.0	2
Charleston (dt1)	57.5	1.2	7.6	18
IA2022 (II)	25.6	1.2	2.6	13
Iroquois (III)	56.4	1.2	7.5	17
Macon (L)	24.1	1.2	2.4	12
A94-774016	77.1	1.4	11.8	25
A94-774018	84.4	1.6	14.7	31
A94-774021	79.8	1.4	12.7	28
A94-774063	96.2	2.1	22.0	35
HC88-15 (dt1)	22.7	1.0	2.2	11
HC89-2232 (Dt1)	72.2	1.5	12.0	26
HC89-2436 (Dt1)	74.0	1.6	13.2	29
HC90-3067 (Dt1)	12.2	1.1	1.4	7
HC91-3672 (Dt1)	26.8	1.2	2.6	14
HF93-035	78.0	1.5	13.3	30
HF93-038	98.5	2.2	23.9	36
HF93-083	88.5	2.0	19.5	34
HF93-155	85.6	1.9	18.0	33
HF93-194	66.8	1.3	8.9	23
HS92-2684	64.8	1.5	10.7	24
HS93-3762	62.8	1.5	8.7	21
HS93-3769	62.3	1.3	7.7	19
HS93-3775	58.3	1.3	8.1	20
HS93-3990	83.6	1.4	12.3	27
SS90-745	92.9	1.5	16.2	32
SS95-1000 (SCN)	-2.9	1.0	-0.1	1
U93-2412	6.0	1.1	0.6	5
U94-2236	6.5	1.1	0.7	6
U94-2306	12.1	1.1	1.4	7
U94-2429	4.1	1.1	0.6	4
U94-2529	52.9	1.2	6.1	16
U94-2629	18.1	1.1	2.0	9
U94-3412	26.3	1.1	2.0	9
U94-3518	37.8	1.4	4.4	15

UNIFORM TEST III, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 20 bu/a	Rank 20 No.	Maturity 19 Date	Lodging 22 Score	Plant Height 22 In.	Seed Quality 21 Score	Seed Size 21 g/100	Composition Protein 5 %	 Oil 5 %
A92-726034 (SCN)	53.6	5	2.1	1.7	29	1.9	17.7	41.2	20.6
Charleston (dt1)	51.5	21	3.1	1.7	24	1.4	15.0	41.8	19.9
IA2022 (II)	50.4	28	-2.0	1.5	32	1.5	15.7	41.5	20.7
Iroquois (III)	51.9	17	09/27	1.3	32	1.3	15.5	41.8	20.6
Macon (L)	52.4	12	3.4	1.3	29	1.3	17.7	41.1	20.7
A94-774016	54.5	3	1.6	1.4	25	1.4	15.8	40.4	20.9
A94-774018	53.6	5	1.7	1.5	32	1.5	15.1	40.3	21.4
A94-774021	55.3	1	2.2	1.0	26	1.6	15.5	39.8	20.6
A94-774063	52.1	15	2.2	1.2	27	1.4	14.9	41.5	21.2
HC88-15 (dt1)	50.7	25	4.2	1.9	25	1.3	15.8	39.2	21.1
HC89-2232 (Dt1)	53.7	4	5.4	1.9	34	1.4	15.2	42.5	19.7
HC89-2436 (Dt1)	52.8	9	5.4	2.0	34	1.5	14.9	42.6	19.6
HC90-3067 (Dt1)	50.4	28	1.7	2.1	35	1.3	14.5	40.9	21.3
HC91-3672 (Dt1)	51.9	17	5.1	1.8	32	1.3	17.0	40.8	21.2
HF93-035	52.5	11	-0.4	1.8	31	1.8	19.5	41.3	21.1
HF93-038	51.8	19	1.0	1.9	32	1.5	18.3	40.4	21.3
HF93-083	48.7	33	-0.6	2.3	33	1.5	18.0	41.4	20.6
HF93-155	50.4	28	0.3	1.4	30	1.7	17.7	40.0	22.0
HF93-194	50.6	26	2.3	1.8	30	1.6	17.8	42.2	20.1
HS92-2684	50.2	31	4.0	1.6	33	1.2	16.4	41.7	20.9
HS93-3762	52.3	13	2.1	1.2	28	1.3	16.3	41.0	20.7
HS93-3769	51.6	20	2.1	1.2	28	1.3	15.7	41.0	20.7
HS93-3775	50.9	24	1.3	1.2	30	1.3	16.0	42.1	20.8
HS93-3990	52.2	14	4.4	1.2	28	1.2	15.4	41.9	20.6
SS90-745	52.1	15	0.5	1.2	30	1.4	15.8	41.0	21.1
SS95-1000 (SCN)	53.0	8	4.4	2.3	37	1.4	14.6	41.3	20.6
U93-2412	53.5	7	1.6	1.5	34	1.5	17.8	42.0	20.4
U94-2236	49.9	32	-0.5	1.3	28	1.4	16.0	41.4	21.0
U94-2306	54.7	2	0.4	1.4	32	1.3	15.2	41.7	20.9
U94-2429	47.1	34	-0.4	1.2	25	1.3	14.1	42.3	20.3
U94-2529	51.0	23	-0.8	1.2	28	1.2	14.5	41.5	20.3
U94-2629	50.6	26	-2.7	1.3	30	1.6	16.3	42.2	20.2
U94-3412	52.6	10	2.9	1.4	30	1.3	15.0	41.7	20.6
U94-3518	51.2	22	1.1	1.3	31	1.3	15.9	41.4	20.1

114.2 Days After Planting

UNIFORM TEST III, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 41 bu/a	Rank 41 No.	Maturity 38 Date	Lodging 46 Score	Plant Height 46 In.	Seed Quality 44 Score	Seed Size 44 g/100	Composition Protein 10 %	 Oil 10 %
A92-726034 (SCN)	49.5	3	1.7	1.6	30	2.0	16.0	40.9	20.4
Charleston (dt1)	48.1	7	2.9	1.5	24	1.5	14.1	41.7	19.9
Iroquois (III)	48.8	6	9/24.0	1.3	32	1.7	14.6	42.0	20.4
Macon	49.2	4	4.2	1.3	31	1.5	16.1	41.0	20.5
HC89-2232	49.6	1	5.0	1.7	35	1.7	14.0	42.1	19.7
HC89-2436	49.1	5	5.2	1.8	35	1.7	13.8	42.0	19.5
HS92-2684	47.9	8	3.1	1.6	34	1.4	15.1	42.0	20.6
U93-2412	49.6	1	1.3	1.4	35	1.8	16.4	41.9	20.4

114.0 Days After Planting

1994-1996 3-YEAR MEAN

No. of Tests Strain	66	66	59	72	72	69	68	14	14
Charleston (dt1)	51.1	4	2.9	1.4	24	1.5	14.6	41.9	20.0
Iroquois (III)	51.4	3	9/21.3	1.4	33	1.6	15.0	42.0	20.3
Macon	53.2	1	4.3	1.4	32	1.5	16.8	41.0	20.4
HC89-2232	52.4	2	5.1	1.7	36	1.6	14.3	42.0	20.0

116.6 Days After Planting

UNIFORM TEST III, 1996

YIELD (bu/a)

Strain	Mean 20 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton* IL	Ridg-way IL
A92-726034 (SCN)	53.6	37.8	48.9	50.5	51.9	32.6	59.5
Charleston (dt1)	51.5	33.3	51.0	54.9	49.6	21.1	47.0
IA2022 (II)	50.4	39.6	45.5	56.6	50.4	24.8	52.1
Iroquois (III)	51.9	36.0	49.9	57.0	51.3	24.9	59.3
Macon (L)	52.4	33.2	51.9	56.5	50.0	23.2	55.2
A94-774016	54.5	35.3	50.6	57.1	44.4	15.0	60.2
A94-774018	53.6	30.6	52.8	60.6	49.9	15.4	60.4
A94-774021	55.3	38.5	53.3	61.0	54.7	19.5	61.2
A94-774063	52.1	31.6	50.5	56.3	53.0	22.9	62.8
HC88-15 (dt1)	50.7	24.4	52.1	51.3	44.0	22.2	56.9
HC89-2232 (Dt1)	53.7	37.2	54.8	50.6	52.4	34.0	60.6
HC89-2436 (Dt1)	52.8	32.5	51.0	52.7	58.4	36.0	62.7
HC90-3067 (Dt1)	50.4	30.1	45.8	53.5	45.1	27.7	54.9
HC91-3672 (Dt1)	51.9	31.7	51.1	55.7	46.0	28.3	57.0
HF93-035	52.5	37.3	54.4	55.5	53.0	21.8	64.0
HF93-038	51.8	30.2	47.8	54.7	50.3	23.5	66.2
HF93-083	48.7	34.4	46.4	48.4	45.3	21.9	55.6
HF93-155	50.4	32.5	46.1	55.9	49.7	18.2	53.4
HF93-194	50.6	30.1	44.3	58.4	46.0	22.5	62.9
HS92-2684	50.2	22.6	46.1	52.4	48.9	25.5	49.2
HS93-3762	52.3	31.5	48.7	57.2	52.1	20.1	50.6
HS93-3769	51.6	33.6	50.9	54.9	50.0	21.8	58.3
HS93-3775	50.9	26.3	49.0	56.0	50.5	21.6	56.4
HS93-3990	52.2	32.4	46.9	56.0	48.8	17.6	59.9
SS90-745	52.1	33.9	53.5	55.8	51.0	21.9	63.8
SS95-1000 (SCN)	53.0	31.2	48.0	49.4	47.5	31.4	60.5
U93-2412	53.5	36.7	53.8	58.5	54.7	18.0	58.7
U94-2236	49.9	26.8	46.4	57.9	50.0	23.8	47.4
U94-2306	54.7	34.2	54.6	62.0	52.4	23.3	59.8
U94-2429	47.1	34.1	44.5	58.0	47.0	15.9	52.7
U94-2529	51.0	37.8	52.1	59.6	50.2	21.6	44.1
U94-2629	50.6	33.7	49.5	58.8	51.7	18.0	52.9
U94-3412	52.6	33.2	49.8	54.3	50.6	25.2	62.3
U94-3518	51.2	30.8	50.6	57.9	49.7	23.5	55.4
C.V. (%)		10.7	6.3	5.4	4.8	22.2	9.9
L.S.D. (5%)		4.9	5.1	4.8	3.9	8.3	9.3
Row Sp. (in.)		15	27	27	27	30	30
Rows/Plot		5	4	4	4	4	4
Reps		4	3	3	3	3	3

* Data not included in the mean.

UNIFORM TEST III, 1996

YIELD (bu/a)

Strain	Urbana IL	Bluff-* ton IN	Butler- ville IN	Lafay- ette IN	Man- hattan KS	Pow- hattan KS	Lexing- ton KY
A92-726034 (SCN)	68.4	40.7	47.6	54.0	59.8	55.1	61.5
Charleston (dt1)	37.4	37.0	30.7	61.3	59.2	53.7	63.6
IA2022 (II)	44.5	24.8	30.4	53.1	60.7	49.9	58.7
Iroquois (III)	35.8	31.3	31.5	54.9	58.6	52.8	60.3
Macon (L)	43.7	33.3	40.9	54.7	67.1	56.6	62.3
A94-774016	38.7	36.6	38.8	57.7	65.0	58.1	64.8
A94-774018	42.0	29.4	38.4	53.0	67.4	56.3	68.3
A94-774021	42.8	38.2	41.5	56.6	60.8	58.7	66.0
A94-774063	40.5	25.5	42.8	52.3	59.7	55.2	59.9
HC88-15 (dt1)	35.0	22.5	43.3	52.2	61.7	47.4	58.4
HC89-2232 (Dt1)	40.1	36.5	40.6	57.2	66.9	54.4	67.0
HC89-2436 (Dt1)	37.0	29.2	41.9	55.1	64.8	51.2	62.6
HC90-3067 (Dt1)	35.2	34.6	38.8	57.0	60.3	51.9	58.9
HC91-3672 (Dt1)	39.4	26.3	31.7	55.7	64.5	51.1	67.1
HF93-035	33.5	26.7	43.4	53.4	64.6	56.2	61.9
HF93-038	36.8	31.5	47.3	50.3	66.8	57.1	65.3
HF93-083	33.5	24.6	44.2	46.2	60.4	52.5	57.2
HF93-155	34.1	31.5	42.3	52.6	66.2	54.5	67.8
HF93-194	35.0	36.9	48.2	50.6	66.3	55.6	63.3
HS92-2684	32.7	39.7	46.8	50.5	58.8	52.8	61.7
HS93-3762	31.2	39.7	44.3	56.0	61.4	52.5	67.7
HS93-3769	33.5	35.9	40.8	53.6	58.1	53.5	57.7
HS93-3775	30.9	36.8	39.9	57.0	61.1	50.3	56.0
HS93-3990	40.3	43.5	39.3	53.9	63.5	51.6	67.1
SS90-745	35.9	37.6	26.3	54.5	64.8	52.7	67.2
SS95-1000 (SCN)	66.0	44.2	45.2	52.1	68.9	54.3	66.3
U93-2412	36.3	28.1	32.9	54.1	67.3	52.7	64.5
U94-2236	38.7	18.1	36.4	53.7	56.4	50.5	62.4
U94-2306	45.2	40.4	29.7	59.2	62.0	54.5	66.6
U94-2429	31.7	24.2	26.7	47.9	60.4	52.4	61.0
U94-2529	39.7	30.6	33.0	56.0	64.6	54.1	56.1
U94-2629	37.4	15.5	30.6	54.5	58.0	50.1	61.5
U94-3412	46.8	40.2	30.0	56.8	67.4	54.1	58.9
U94-3518	43.7	30.2	36.1	54.0	63.3	54.3	61.9
C.V. (%)	13.1	21.8	20.1	4.9	4.5	3.3	7.3
L.S.D. (5%)	8.4	11.4	12.5	4.3	3.9	2.4	6.2
Row Sp. (in.)	30	26	26	24	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

* Data not included in the mean.

UNIFORM TEST III, 1996

YIELD (bu/a)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	52.4	41.1	54.3	57.5	----	44.0
Charleston (dt1)	45.4	40.2	61.5	58.3	44.9	42.3
IA2022 (II)	54.3	42.0	61.5	62.9	31.8	42.6
Iroquois (III)	55.8	51.9	70.5	57.3	45.9	47.8
Macon (L)	56.0	44.9	64.2	58.0	48.0	46.7
A94-774016	61.2	48.1	63.9	63.6	51.7	46.7
A94-774018	61.4	44.5	66.2	65.2	51.7	30.1
A94-774021	51.5	50.5	64.8	64.2	51.7	50.2
A94-774063	62.1	45.3	56.7	59.2	52.9	44.6
HC88-15 (dt1)	55.6	47.3	58.1	59.7	43.9	45.3
HC89-2232 (Dt1)	59.6	47.9	59.8	60.7	46.6	44.2
HC89-2436 (Dt1)	53.8	50.3	55.5	61.4	44.3	44.6
HC90-3067 (Dt1)	52.6	45.4	57.0	61.8	40.0	44.2
HC91-3672 (Dt1)	54.8	42.7	62.9	61.4	46.8	46.3
HF93-035	49.3	41.5	59.9	60.0	48.8	42.4
HF93-038	49.0	44.1	61.6	57.1	47.7	41.4
HF93-083	54.8	44.4	59.4	56.4	41.6	38.5
HF93-155	52.7	42.2	58.6	57.5	44.5	40.5
HF93-194	49.1	42.5	55.0	56.3	49.1	31.7
HS92-2684	56.1	42.0	62.5	56.0	45.0	41.9
HS93-3762	55.4	39.4	64.9	64.3	49.7	43.9
HS93-3769	55.9	40.2	66.0	62.1	48.1	41.2
HS93-3775	55.0	39.4	64.4	58.1	49.1	48.3
HS93-3990	56.1	43.3	64.8	60.4	48.6	42.7
SS90-745	55.5	43.3	63.2	62.1	47.9	45.1
SS95-1000 (SCN)	56.8	45.8	61.4	57.6	44.0	38.5
U93-2412	56.2	40.2	74.2	67.6	50.6	45.5
U94-2236	51.5	43.3	61.6	65.0	46.2	40.7
U94-2306	59.8	50.8	68.5	58.1	53.3	46.3
U94-2429	50.9	32.7	63.0	60.4	42.5	42.7
U94-2529	54.4	33.3	68.1	66.9	46.8	39.1
U94-2629	50.5	35.0	67.9	63.6	43.8	45.0
U94-3412	57.7	46.2	57.4	63.4	49.6	47.0
U94-3518	56.8	38.6	62.4	60.8	43.7	40.4
C.V. (%)	7.1	9.0	8.2	6.1	10.0	15.3
L.S.D. (5%)	6.3	6.4	10.2	7.4	7.6	7.3
Row Sp. (in.)	30	34	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

UNIFORM TEST III, 1996

YIELD (bu/a)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	44.2	72.9	57.7
Charleston (dt1	66.1	72.7	56.5
IA2022 (II)	49.3	71.9	50.7
Iroquois (III)	41.7	70.9	49.2
Macon (L)	37.1	69.0	51.2
A94-774016	53.3	71.6	58.7
A94-774018	41.2	77.7	53.3
A94-774021	51.1	74.8	52.6
A94-774063	38.7	67.1	50.7
HC88-15 (dt1)	55.7	68.6	52.3
HC89-2232 (Dt1)	38.8	74.8	59.1
HC89-2436 (Dt1)	45.0	72.5	59.1
HC90-3067 (Dt1)	51.1	71.4	53.3
HC91-3672 (Dt1)	44.7	67.2	59.5
HF93-035	45.7	67.2	58.8
HF93-038	41.2	68.6	51.9
HF93-083	41.6	64.0	48.9
HF93-155	46.1	61.0	49.7
HF93-194	46.4	69.3	51.8
HS92-2684	52.3	70.4	55.2
HS93-3762	54.2	72.0	48.9
HS93-3769	50.2	70.9	52.5
HS93-3775	50.5	67.7	52.8
HS93-3990	47.5	69.2	51.8
SS90-745	42.7	70.5	52.6
SS95-1000 (SCN)	47.4	65.9	52.6
U93-2412	37.8	73.2	54.1
U94-2236	47.2	66.3	50.5
U94-2306	52.3	72.2	53.0
U94-2429	32.6	63.4	38.0
U94-2529	39.4	72.2	52.5
U94-2629	46.1	70.3	50.6
U94-3412	38.4	73.2	54.8
U94-3518	43.2	70.6	49.1
C.V. (%)	18.0	5.6	6.7
L.S.D. (5%)	ns	6.4	4.2
Row Sp. (in.)	15	7.5	30
Rows/Plot	6	8	4
Reps	3	3	3

UNIFORM TEST III, 1996

YIELD RANK

Strain	Yield Rank	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	5	3	22	32	9	3	15
Charleston (dt1)	21	16	12	23	24	25	33
IA2022 (II)	28	1	32	14	15	10	29
Iroquois (III)	17	8	18	13	11	9	16
Macon (L)	12	17	10	15	18	15	24
A94-774016	3	9	15	12	33	34	12
A94-774018	5	27	7	3	21	33	11
A94-774021	1	2	6	2	2	27	8
A94-774063	15	23	17	16	4	16	5
HC88-15 (dt1)	25	33	8	30	34	18	20
HC89-2232 (Dt1)	4	6	1	31	6	2	9
HC89-2436 (Dt1)	9	19	12	28	1	1	6
HC90-3067 (Dt1)	28	29	31	27	32	6	25
HC91-3672 (Dt1)	17	22	11	21	29	5	19
HF93-035	11	5	3	22	4	21	2
HF93-038	19	28	25	25	16	12	1
HF93-083	33	10	27	34	31	19	22
HF93-155	28	19	29	19	22	28	26
HF93-194	26	29	34	7	29	17	4
HS92-2684	31	34	29	29	25	7	31
HS93-3762	13	24	23	11	8	26	30
HS93-3769	20	15	14	23	18	21	18
HS93-3775	24	32	21	17	14	23	21
HS93-3990	14	21	26	17	26	31	13
SS90-745	15	13	5	20	12	19	3
SS95-1000 (SCN)	8	25	24	33	27	4	10
U93-2412	7	7	4	6	2	29	17
U94-2236	32	31	27	9	18	11	32
U94-2306	2	11	2	1	6	14	14
U94-2429	34	12	33	8	28	32	28
U94-2529	23	3	8	4	17	23	34
U94-2629	26	14	20	5	10	29	27
U94-3412	10	17	19	26	13	8	7
U94-3518	22	26	15	9	22	12	23

UNIFORM TEST III, 1996

YIELD RANK

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	1	3	2	18	27	9	22
Charleston (dt1)	17	9	28	1	29	17	14
IA2022 (II)	5	29	30	24	23	33	29
Iroquois (III)	23	20	27	13	31	19	25
Macon (L)	6	17	14	14	5	4	18
A94-774016	15	12	19	3	10	2	12
A94-774018	9	23	21	25	2	5	1
A94-774021	8	7	13	8	22	1	10
A94-774063	10	28	10	27	28	8	26
HC88-15 (dt1)	25	32	9	28	19	34	30
HC89-2232 (Dt1)	12	13	16	4	6	12	7
HC89-2436 (Dt1)	19	15	12	12	11	28	16
HC90-3067 (Dt1)	24	24	19	5	26	26	27
HC91-3672 (Dt1)	14	16	26	11	15	29	5
HF93-035	28	27	8	23	13	6	19
HF93-038	20	26	3	32	7	3	11
HF93-083	28	18	7	34	24	23	32
HF93-155	27	30	11	26	9	10	2
HF93-194	25	18	1	30	8	7	15
HS92-2684	31	10	4	31	30	19	21
HS93-3762	33	6	6	9	20	23	3
HS93-3769	28	14	15	22	32	18	31
HS93-3775	34	11	17	5	21	31	34
HS93-3990	11	2	18	20	15	27	5
SS90-745	22	8	34	15	11	21	4
SS95-1000 (SCN)	2	1	5	29	1	13	9
U93-2412	21	25	25	17	4	21	13
U94-2236	15	33	22	21	34	30	17
U94-2306	4	4	32	2	18	10	8
U94-2429	32	31	33	33	24	25	24
U94-2529	13	21	24	9	13	15	33
U94-2629	17	34	29	15	33	32	22
U94-3412	3	5	31	7	3	15	27
U94-3518	6	22	23	18	17	13	19

UNIFORM TEST III, 1996

YIELD RANK

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	26	25	34	29	34	17
Charleston (dt1)	34	26	21	24	23	23
IA2022 (II)	22	22	22	11	33	21
Iroquois (III)	14	1	2	31	21	3
Macon (L)	12	12	12	26	14	5
A94-774016	3	5	13	8	3	5
A94-774018	2	13	6	4	3	34
A94-774021	27	3	9	7	3	1
A94-774063	1	11	31	23	2	13
HC88-15 (dt1)	15	7	28	22	27	10
HC89-2232 (Dt1)	5	6	25	18	19	15
HC89-2436 (Dt1)	23	4	32	16	25	13
HC90-3067 (Dt1)	25	10	30	14	32	15
HC91-3672 (Dt1)	19	19	16	15	17	7
HF93-035	31	24	24	21	11	22
HF93-038	33	15	20	32	16	25
HF93-083	19	14	26	33	31	31
HF93-155	24	21	27	30	24	28
HF93-194	32	20	33	34	9	33
HS92-2684	10	22	17	35	22	24
HS93-3762	17	29	8	6	7	18
HS93-3769	13	26	7	13	13	26
HS93-3775	18	29	11	25	9	2
HS93-3990	10	16	10	20	12	19
SS90-745	16	16	14	12	15	11
SS95-1000 (SCN)	7	9	23	27	26	31
U93-2412	9	26	1	2	6	9
U94-2236	27	16	19	5	20	27
U94-2306	4	2	3	1	1	7
U94-2429	29	34	15	20	30	19
U94-2529	21	33	4	3	18	30
U94-2629	30	32	5	9	28	12
U94-3412	6	8	29	10	8	4
U94-3518	7	31	18	17	29	29

UNIFORM TEST III, 1996

YIELD RANK

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	21	6	6
Charleston (dt1	1	7	7
IA2022 (II)	11	12	27
Iroquois (III)	24	15	32
Macon (L)	33	23	26
A94-774016	4	13	5
A94-774018	26	1	11
A94-774021	7	2	15
A94-774063	30	29	28
HC88-15 (dt1)	2	24	21
HC89-2232 (Dt1)	29	2	3
HC89-2436 (Dt1)	19	8	2
HC90-3067 (Dt1)	7	14	12
HC91-3672 (Dt1)	20	27	1
HF93-035	18	27	4
HF93-038	26	24	22
HF93-083	25	32	35
HF93-155	16	34	31
HF93-194	15	21	24
HS92-2684	5	19	8
HS93-3762	3	11	34
HS93-3769	10	15	19
HS93-3775	9	26	14
HS93-3990	12	22	23
SS90-745	23	18	17
SS95-1000 (SCN)	13	31	16
U93-2412	32	4	10
U94-2236	14	30	30
U94-2306	5	9	13
U94-2429	34	33	36
U94-2529	28	9	20
U94-2629	16	20	29
U94-3412	31	4	9
U94-3518	22	17	33

UNIFORM TEST III, 1996

MATURITY (date)

Strain	Mean 19 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	2.1	0			1	2	0
Charleston (dt1)	3.1	3			7	1	-1
IA2022 (II)	-2.0	-1			0	-2	-4
Iroquois (III)	09/27	09/21			10/03	09/27	09/23
Macon (L)	3.4	3			4	3	3
A94-774016	1.6	-1			1	-2	-1
A94-774018	1.7	-1			1	-5	0
A94-774021	2.2	3			4	-2	1
A94-774063	2.2	3			2	0	1
HC88-15 (dt1)	4.2	2			6	2	1
HC89-2232 (Dt1)	5.4	6			7	5	3
HC89-2436 (Dt1)	5.4	5			6	6	3
HC90-3067 (Dt1)	1.7	4			3	2	0
HC91-3672 (Dt1)	5.1	5			8	4	1
HF93-035	-0.4	-1			1	1	-4
HF93-038	1.0	1			1	1	-4
HF93-083	-0.6	-1			1	-1	-4
HF93-155	0.3	-1			0	1	-4
HF93-194	2.3	2			3	2	-2
HS92-2684	4.0	3			6	3	1
HS93-3762	2.1	3			2	0	0
HS93-3769	2.1	3			3	2	-2
HS93-3775	1.3	3			2	0	-3
HS93-3990	4.4	5			5	5	1
SS90-745	0.5	-1			0	0	-2
SS95-1000 (SCN)	4.4	2			5	2	2
U93-2412	1.6	1			1	-2	0
U94-2236	-0.5	-1			-1	-3	-4
U94-2306	0.4	0			0	0	0
U94-2429	-0.4	0			0	-2	-5
U94-2529	-0.8	0			1	-3	-4
U94-2629	-2.7	-2			0	-4	-6
U94-3412	2.9	4			7	2	-2
U94-3518	1.1	3			2	-1	-4
Date Planted	06/05	06/18			06/15	06/17	06/03
Days to Mature	114.2	95			110	102	112

UNIFORM TEST III, 1996

MATURITY (date)

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	4	4	4	2	6		1
Charleston (dt1)	3	1	4	5	11		0
IA2022 (II)	0	0	-3	-1	0		-7
Iroquois (III)	09/21	10/08	10/09	10/03	09/17		09/19
Macon (L)	4	4	3	2	6		0
A94-774016	3	1	4	0	7		2
A94-774018	2	2	3	0	6		2
A94-774021	3	3	5	0	4		2
A94-774063	2	3	7	1	3		-2
HC88-15 (dt1)	4	5	8	6	8		6
HC89-2232 (Dt1)	5	5	5	10	8		2
HC89-2436 (Dt1)	5	7	5	9	9		1
HC90-3067 (Dt1)	1	2	0	2	3		-1
HC91-3672 (Dt1)	4	6	5	7	12		1
HF93-035	2	1	0	0	2		-1
HF93-038	2	2	2	1	3		3
HF93-083	1	-1	-1	0	4		-3
HF93-155	1	2	0	0	6		0
HF93-194	3	3	5	1	7		3
HS92-2684	2	4	7	6	8		-1
HS93-3762	1	4	4	3	5		0
HS93-3769	2	4	4	3	5		-2
HS93-3775	0	4	3	1	4		-3
HS93-3990	5	9	7	4	8		2
SS90-745	2	2	-1	1	4		0
SS95-1000 (SCN)	6	4	3	3	11		5
U93-2412	2	2	2	2	6		-1
U94-2236	-1	2	1	0	-2		4
U94-2306	2	2	-1	0	2		-2
U94-2429	-2	3	2	0	2		-5
U94-2529	0	2	1	0	0		-7
U94-2629	-2	1	-1	0	-3		-7
U94-3412	2	5	3	5	4		-3
U94-3518	2	1	0	1	4		0
Date Planted	05/22	06/18	06/27	06/16	05/21		05/22
Days to Mature	122	112	104	109	119		120

UNIFORM TEST III, 1996

MATURITY (date)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	3	0	4	1	2	0
Charleston (dt1)	3	0	7	5	3	-2
IA2022 (II)	-3	-5	-3	-1	-7	4
Iroquois (III)	09/24	09/12	10/01	10/01	10/11	09/28
Macon (L)	6	1	3	4	3	5
A94-774016	0	-1	4	3	1	7
A94-774018	2	0	5	2	1	8
A94-774021	1	3	3	3	1	1
A94-774063	4	-1	2	3	2	5
HC88-15 (dt1)	1	-1	2	4	3	8
HC89-2232 (Dt1)	6	2	9	6	4	0
HC89-2436 (Dt1)	5	4	8	4	4	1
HC90-3067 (Dt1)	4	-1	4	4	-2	4
HC91-3672 (Dt1)	6	0	6	6	4	1
HF93-035	-2	-4	0	-1	-1	4
HF93-038	0	-2	1	0	0	8
HF93-083	0	-2	2	1	-4	0
HF93-155	-1	-2	1	1	1	4
HF93-194	3	0	3	3	2	1
HS92-2684	4	0	6	4	3	2
HS93-3762	1	-2	4	2	2	4
HS93-3769	2	-1	4	4	2	1
HS93-3775	-1	-2	4	4	1	5
HS93-3990	4	2	4	5	3	0
SS90-745	0	-1	0	1	0	4
SS95-1000 (SCN)	5	2	7	5	2	9
U93-2412	3	-1	3	3	0	4
U94-2236	-3	-1	0	-1	-3	8
U94-2306	1	0	1	2	-3	4
U94-2429	-1	-4	1	2	-2	7
U94-2529	-2	-5	1	3	-3	1
U94-2629	-3	-7	-1	-2	-5	-3
U94-3412	3	-1	5	4	2	1
U94-3518	1	-1	2	4	-2	7
Date Planted	06/07	05/20	06/04	05/20	06/25	06/05
Days to Mature	109	115	119	134	108	115

UNIFORM TEST III, 1996

MATURITY (date)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	0	4	2
Charleston (dt1	2	5	1
IA2022 (II)	-4	1	-2
Iroquois (III)	10/03	09/24	09/21
Macon (L)	2	5	4
A94-774016	0	1	1
A94-774018	0	3	1
A94-774021	3	3	0
A94-774063	3	3	1
HC88-15 (dt1)	3	6	5
HC89-2232 (Dt1)	6	9	5
HC89-2436 (Dt1)	7	9	5
HC90-3067 (Dt1)	0	3	1
HC91-3672 (Dt1)	6	8	7
HF93-035	-2	-1	-1
HF93-038	-2	2	0
HF93-083	-2	0	-2
HF93-155	-3	-1	0
HF93-194	-1	5	1
HS92-2684	6	8	4
HS93-3762	2	4	0
HS93-3769	1	4	0
HS93-3775	-3	3	2
HS93-3990	6	7	2
SS90-745	-1	2	0
SS95-1000 (SCN)	-1	8	3
U93-2412	1	3	2
U94-2236	-2	0	-2
U94-2306	-1	1	0
U94-2429	-2	0	-2
U94-2529	-2	1	0
U94-2629	-3	-1	-2
U94-3412	5	7	3
U94-3518	-1	2	0
Date Planted	06/18	05/20	05/14
Days to Mature	107	127	130

UNIFORM TEST III, 1996

LODGING (score)

Strain	Mean 22 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	1.7	1.0	2.0	2.0	1.3	1.0	2.0
Charleston (dt1)	1.7	1.0	1.6	4.1	1.9	1.0	1.0
IA2022 (II)	1.5	1.0	1.5	1.9	1.4	1.0	1.0
Iroquois (III)	1.3	1.0	1.6	1.9	1.0	1.0	1.0
Macon (L)	1.3	1.0	1.5	1.6	1.1	1.0	1.0
A94-774016	1.4	1.0	1.4	1.9	1.1	1.0	1.0
A94-774018	1.5	1.0	1.6	2.1	1.1	1.0	1.0
A94-774021	1.0	1.0	1.2	1.1	1.0	1.0	1.0
A94-774063	1.2	1.0	1.6	1.7	1.1	1.0	1.0
HC88-15 (dt1)	1.9	1.0	2.0	3.6	2.6	1.0	1.0
HC89-2232 (Dt1)	1.9	1.0	2.2	3.9	1.4	1.0	1.7
HC89-2436 (Dt1)	2.0	1.0	2.3	3.8	1.4	1.0	2.0
HC90-3067 (Dt1)	2.1	1.0	2.1	4.5	2.2	1.0	1.0
HC91-3672 (Dt1)	1.8	1.0	2.2	3.5	1.4	1.0	1.3
HF93-035	1.8	1.0	1.9	3.6	1.6	1.0	1.7
HF93-038	1.9	1.0	1.9	3.5	1.7	1.0	1.7
HF93-083	2.3	2.0	2.0	4.1	3.0	1.0	2.0
HF93-155	1.4	1.0	1.6	3.1	1.2	1.0	1.0
HF93-194	1.8	1.0	1.7	3.3	2.2	1.0	2.0
HS92-2684	1.6	1.0	2.2	2.3	1.3	1.0	1.7
HS93-3762	1.2	1.0	1.4	1.4	1.2	1.0	1.0
HS93-3769	1.2	1.0	1.5	1.4	1.1	1.0	1.0
HS93-3775	1.2	1.0	1.5	1.5	1.2	1.0	1.0
HS93-3990	1.2	1.0	1.3	1.4	1.1	1.0	1.0
SS90-745	1.2	1.0	1.4	1.6	1.0	1.0	1.0
SS95-1000 (SCN)	2.3	1.0	2.0	4.1	1.7	1.0	1.7
U93-2412	1.5	1.0	1.7	2.1	1.2	1.0	1.0
U94-2236	1.3	1.0	1.6	1.7	1.1	1.0	1.0
U94-2306	1.4	1.0	2.0	1.8	1.2	1.0	1.0
U94-2429	1.2	1.0	1.3	1.5	1.1	1.0	1.0
U94-2529	1.2	1.0	1.3	1.7	1.0	1.0	1.0
U94-2629	1.3	1.0	1.4	1.9	1.1	1.0	1.0
U94-3412	1.4	1.0	1.8	2.2	1.4	1.0	1.3
U94-3518	1.3	1.0	1.5	1.9	1.2	1.0	1.0

UNIFORM TEST III, 1996

LODGING (score)

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	1.0	1.0	1.0	2.2	1.0	1.0	1.8
Charleston (dt1)	1.0	1.0	1.0	1.2	1.0	1.0	3.2
IA2022 (II)	1.0	1.0	1.0	1.7	1.0	1.0	1.5
Iroquois (III)	1.0	1.0	1.0	1.2	1.0	1.0	1.3
Macon (L)	1.0	1.0	1.0	1.0	1.0	1.0	1.5
A94-774016	1.0	1.0	1.0	1.3	1.0	1.0	1.0
A94-774018	1.0	1.0	1.0	2.0	1.3	1.0	1.3
A94-774021	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A94-774063	1.0	1.0	1.0	1.0	1.0	1.0	1.5
HC88-15 (dt1)	1.0	1.0	1.0	3.5	1.3	1.0	3.2
HC89-2232 (Dt1)	1.0	1.0	1.0	3.2	1.3	1.0	2.5
HC89-2436 (Dt1)	1.0	1.0	1.0	3.2	1.0	1.0	2.7
HC90-3067 (Dt1)	1.0	1.0	1.0	2.8	2.0	2.0	2.5
HC91-3672 (Dt1)	1.0	1.0	1.0	1.7	1.7	1.0	1.8
HF93-035	1.0	1.0	1.0	2.3	1.7	1.0	1.8
HF93-038	1.0	1.0	1.0	2.5	2.0	1.7	2.7
HF93-083	1.0	1.0	1.0	3.2	2.7	2.7	2.0
HF93-155	1.0	1.0	1.0	1.0	1.3	1.0	1.5
HF93-194	1.0	1.0	1.0	2.7	2.0	1.0	2.5
HS92-2684	1.0	1.0	1.0	2.0	1.7	1.3	1.8
HS93-3762	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HS93-3769	1.0	1.0	1.0	1.0	1.0	1.0	1.3
HS93-3775	1.0	1.0	1.0	1.2	1.0	1.0	1.0
HS93-3990	1.0	1.0	1.0	1.0	1.0	1.0	1.2
SS90-745	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SS95-1000 (SCN)	1.5	1.0	1.0	3.2	3.3	2.0	3.2
U93-2412	1.0	1.0	1.0	2.3	1.7	1.0	1.8
U94-2236	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U94-2306	1.0	1.0	1.0	1.5	1.7	1.0	1.5
U94-2429	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U94-2529	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U94-2629	1.0	1.0	1.0	1.3	1.0	1.0	1.2
U94-3412	1.0	1.0	1.0	2.5	1.0	1.0	1.2
U94-3518	1.0	1.0	1.0	1.2	1.0	1.0	1.2

UNIFORM TEST III, 1996

LODGING (score)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	2.7	1.0	2.3	1.3	5.0	1.9
Charleston (dt1)	1.0	1.0	3.3	1.0	4.3	2.7
IA2022 (II)	2.2	1.3	2.0	1.3	3.7	1.5
Iroquois (III)	2.2	1.0	1.7	1.0	1.7	1.7
Macon (L)	1.8	1.0	2.0	1.7	1.3	1.8
A94-774016	2.0	1.0	2.3	1.3	2.0	1.9
A94-774018	2.2	1.0	2.0	1.3	3.0	2.0
A94-774021	1.0	1.0	1.0	1.0	1.0	1.7
A94-774063	1.8	1.2	2.0	1.0	1.0	1.5
HC88-15 (dt1)	1.0	1.0	3.0	1.0	3.7	3.7
HC89-2232 (Dt1)	2.0	1.0	3.0	1.7	3.3	1.9
HC89-2436 (Dt1)	2.0	1.0	3.3	1.7	3.7	2.9
HC90-3067 (Dt1)	2.2	1.3	3.0	2.0	5.0	2.1
HC91-3672 (Dt1)	2.7	1.2	2.7	2.0	3.0	2.1
HF93-035	2.3	1.2	2.0	1.0	5.0	1.7
HF93-038	2.3	1.2	2.7	2.0	4.0	1.8
HF93-083	3.2	1.3	3.0	2.3	4.0	2.2
HF93-155	2.2	1.0	2.0	1.7	2.0	1.4
HF93-194	2.7	1.2	2.3	1.7	2.3	1.7
HS92-2684	2.3	1.0	2.3	1.7	1.7	2.2
HS93-3762	2.0	1.0	1.0	1.0	1.3	1.7
HS93-3769	1.8	1.0	1.7	1.3	1.3	1.7
HS93-3775	1.8	1.0	1.7	1.0	1.7	1.5
HS93-3990	1.5	1.0	1.3	1.7	1.3	1.6
SS90-745	2.3	1.0	2.0	1.3	1.3	1.7
SS95-1000 (SCN)	3.3	1.7	3.0	2.0	3.3	1.5
U93-2412	2.7	1.0	2.0	1.0	2.3	1.6
U94-2236	2.2	1.0	2.0	1.3	2.0	1.7
U94-2306	2.2	1.0	2.0	1.0	3.0	1.6
U94-2429	1.8	1.0	1.3	1.0	1.0	1.8
U94-2529	1.8	1.0	1.3	1.0	1.7	2.0
U94-2629	2.0	1.0	2.0	1.0	2.0	1.6
U94-3412	2.0	1.0	2.3	1.3	2.0	1.4
U94-3518	2.3	1.0	1.7	1.0	2.3	1.7

UNIFORM TEST III, 1996

LODGING (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	1.0	1.5	2.1
Charleston (dt1	1.1	1.8	1.9
IA2022 (II)	1.0	1.3	1.6
Iroquois (III)	1.0	1.5	1.6
Macon (L)	1.0	1.0	2.2
A94-774016	1.0	2.2	1.7
A94-774018	1.0	1.5	1.5
A94-774021	1.0	1.0	1.0
A94-774063	1.0	1.2	1.7
HC88-15 (dt1)	1.1	1.0	2.9
HC89-2232 (Dt1)	1.1	2.0	2.8
HC89-2436 (Dt1)	1.2	1.7	3.4
HC90-3067 (Dt1)	1.3	2.3	1.9
HC91-3672 (Dt1)	1.2	1.5	2.9
HF93-035	1.0	1.3	2.5
HF93-038	1.1	2.3	1.7
HF93-083	1.1	3.5	1.9
HF93-155	1.0	1.3	1.4
HF93-194	1.0	1.8	2.0
HS92-2684	1.0	1.8	2.6
HS93-3762	1.0	1.0	1.7
HS93-3769	1.0	1.0	1.6
HS93-3775	1.0	1.0	1.7
HS93-3990	1.0	1.0	1.9
SS90-745	1.0	1.2	1.6
SS95-1000 (SCN)	1.0	3.7	3.7
U93-2412	1.0	1.3	1.8
U94-2236	1.0	1.0	1.6
U94-2306	1.0	1.2	1.6
U94-2429	1.0	1.0	1.6
U94-2529	1.0	1.0	1.6
U94-2629	1.0	1.3	1.5
U94-3412	1.0	1.0	1.9
U94-3518	1.0	1.0	1.5

UNIFORM TEST III, 1996

PLANT HEIGHT (inches)

Strain	Mean 22 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	29	23	32	38	32	22	32
Charleston (dt1)	24	18	28	33	27	19	18
IA2022 (II)	32	25	37	40	37	24	31
Iroquois (III)	32	25	38	41	38	24	35
Macon (L)	29	22	32	38	33	23	29
A94-774016	25	20	30	36	28	15	23
A94-774018	32	24	38	42	36	22	32
A94-774021	26	20	30	35	29	18	27
A94-774063	27	22	33	36	30	23	29
HC88-15 (dt1)	25	17	32	32	33	19	23
HC89-2232 (Dt1)	34	27	37	41	37	31	38
HC89-2436 (Dt1)	34	27	38	41	36	30	38
HC90-3067 (Dt1)	35	30	38	41	38	30	37
HC91-3672 (Dt1)	32	25	37	39	36	25	33
HF93-035	31	26	37	37	36	23	36
HF93-038	32	26	38	41	36	23	36
HF93-083	33	27	41	42	36	24	36
HF93-155	30	24	33	39	36	20	32
HF93-194	30	26	35	40	37	22	31
HS92-2684	33	27	39	39	36	27	35
HS93-3762	28	24	33	37	33	21	30
HS93-3769	28	24	34	37	33	22	33
HS93-3775	30	24	34	39	33	23	32
HS93-3990	28	22	31	37	30	21	31
SS90-745	30	22	34	40	33	21	32
SS95-1000 (SCN)	37	28	44	43	40	29	39
U93-2412	34	27	38	42	39	24	37
U94-2236	28	20	32	38	33	22	27
U94-2306	32	24	37	40	37	24	34
U94-2429	25	20	33	36	32	18	27
U94-2529	28	23	32	38	31	20	28
U94-2629	30	22	37	39	34	22	31
U94-3412	30	24	34	40	38	23	33
U94-3518	31	25	35	39	35	24	32

UNIFORM TEST III, 1996

PLANT HEIGHT (inches)

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	33	17	23	29	38	31	30
Charleston (dt1)	25	14	16	25	34	26	28
IA2022 (II)	32	18	23	36	39	34	34
Iroquois (III)	30	16	22	33	40	34	36
Macon (L)	29	16	25	28	36	33	32
A94-774016	24	13	17	27	30	29	26
A94-774018	29	15	22	35	42	38	38
A94-774021	24	15	20	26	35	29	26
A94-774063	25	15	21	29	33	31	29
HC88-15 (dt1)	26	15	19	28	32	24	31
HC89-2232 (Dt1)	33	20	30	36	44	39	38
HC89-2436 (Dt1)	34	20	28	36	43	38	40
HC90-3067 (Dt1)	34	20	27	38	44	40	41
HC91-3672 (Dt1)	31	18	22	33	38	36	34
HF93-035	31	16	24	33	40	36	35
HF93-038	32	17	24	35	39	35	37
HF93-083	30	19	25	36	41	40	36
HF93-155	30	14	21	31	41	34	34
HF93-194	29	17	21	32	36	31	32
HS92-2684	29	21	27	34	41	40	35
HS93-3762	26	16	24	30	35	32	28
HS93-3769	26	17	21	28	35	30	28
HS93-3775	27	17	24	32	40	32	30
HS93-3990	27	18	22	29	35	33	27
SS90-745	26	18	19	32	41	32	34
SS95-1000 (SCN)	41	21	29	39	45	43	41
U93-2412	33	18	25	38	43	35	40
U94-2236	28	16	19	30	35	31	31
U94-2306	31	20	21	33	41	32	35
U94-2429	22	14	19	27	32	28	25
U94-2529	27	15	20	29	34	30	29
U94-2629	28	16	20	33	37	31	33
U94-3412	32	19	20	32	37	32	32
U94-3518	30	16	24	33	40	32	31

UNIFORM TEST III, 1996

PLANT HEIGHT (inches)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	30	30	30	34	26	26
Charleston (dt1)	16	18	34	27	25	28
IA2022 (II)	32	32	38	38	29	32
Iroquois (III)	32	30	36	37	29	31
Macon (L)	33	28	37	33	24	29
A94-774016	24	21	27	28	24	24
A94-774018	33	28	37	38	34	32
A94-774021	24	24	29	31	24	24
A94-774063	27	26	30	30	24	26
HC88-15 (dt1)	20	18	30	29	23	33
HC89-2232 (Dt1)	33	32	35	36	31	33
HC89-2436 (Dt1)	33	33	37	35	30	35
HC90-3067 (Dt1)	32	37	41	39	34	37
HC91-3672 (Dt1)	32	29	36	37	27	32
HF93-035	29	29	37	36	30	34
HF93-038	31	30	35	35	28	32
HF93-083	35	30	40	35	33	37
HF93-155	30	26	32	38	26	28
HF93-194	30	27	37	34	26	30
HS92-2684	34	30	37	42	25	33
HS93-3762	28	26	31	34	24	27
HS93-3769	29	26	36	32	25	27
HS93-3775	30	28	34	34	26	29
HS93-3990	27	26	30	31	21	28
SS90-745	32	28	35	37	25	27
SS95-1000 (SCN)	45	35	42	41	35	37
U93-2412	38	32	39	40	32	34
U94-2236	26	26	33	31	25	27
U94-2306	34	29	36	37	28	32
U94-2429	23	23	30	30	24	23
U94-2529	27	25	32	35	26	26
U94-2629	28	28	36	36	29	30
U94-3412	30	28	34	37	25	29
U94-3518	32	27	34	35	29	28

UNIFORM TEST III, 1996

PLANT HEIGHT (inches)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	23	33	28
Charleston (dt1	22	23	23
IA2022 (II)	32	35	28
Iroquois (III)	25	34	27
Macon (L)	22	30	27
A94-774016	21	29	23
A94-774018	26	35	27
A94-774021	22	28	23
A94-774063	23	27	25
HC88-15 (dt1)	26	25	24
HC89-2232 (Dt1)	29	35	31
HC89-2436 (Dt1)	31	35	33
HC90-3067 (Dt1)	34	35	31
HC91-3672 (Dt1)	28	34	32
HF93-035	26	32	28
HF93-038	28	33	28
HF93-083	30	32	24
HF93-155	26	31	27
HF93-194	25	32	26
HS92-2684	27	36	29
HS93-3762	24	31	25
HS93-3769	24	30	27
HS93-3775	25	32	27
HS93-3990	22	32	26
SS90-745	25	31	28
SS95-1000 (SCN)	32	36	36
U93-2412	30	36	31
U94-2236	23	31	25
U94-2306	26	35	30
U94-2429	21	28	22
U94-2529	24	32	26
U94-2629	26	31	28
U94-3412	21	33	28
U94-3518	28	33	29

UNIFORM TEST III, 1996

SEED QUALITY (score)

Strain	Mean 21 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	1.9		2.0	3.0	1.0	1.6	1.8
Charleston (dt1)	1.4		1.0	1.0	2.0	1.5	1.3
IA2022 (II)	1.5		2.0	1.0	1.0	1.4	1.5
Iroquois (III)	1.3		1.0	1.0	1.0	1.5	1.3
Macon (L)	1.3		1.0	1.0	1.0	1.7	1.5
A94-774016	1.4		1.0	1.0	1.0	1.4	1.5
A94-774018	1.5		1.0	1.0	1.0	1.5	1.8
A94-774021	1.6		2.0	1.0	1.0	1.8	1.5
A94-774063	1.4		1.0	1.0	1.0	1.5	1.4
HC88-15 (dt1)	1.3		1.0	1.0	1.0	1.5	1.5
HC89-2232 (Dt1)	1.4		2.0	1.0	2.0	1.5	1.5
HC89-2436 (Dt1)	1.5		2.0	2.0	2.0	1.8	1.5
HC90-3067 (Dt1)	1.3		1.0	1.0	1.0	1.5	1.4
HC91-3672 (Dt1)	1.3		1.0	1.0	1.0	1.7	1.5
HF93-035	1.8		2.0	1.0	1.0	2.0	1.8
HF93-038	1.5		1.0	1.0	1.0	2.0	1.9
HF93-083	1.5		1.0	1.0	1.0	1.7	1.8
HF93-155	1.7		2.0	1.0	2.0	1.5	1.5
HF93-194	1.6		2.0	1.0	2.0	2.0	1.8
HS92-2684	1.2		1.0	1.0	1.0	1.7	1.6
HS93-3762	1.3		1.0	1.0	2.0	1.4	1.5
HS93-3769	1.3		1.0	1.0	2.0	1.4	1.5
HS93-3775	1.3		1.0	1.0	1.0	1.4	1.4
HS93-3990	1.2		1.0	1.0	1.0	1.7	1.5
SS90-745	1.4		2.0	1.0	1.0	1.7	1.5
SS95-1000 (SCN)	1.4		2.0	1.0	2.0	1.7	1.5
U93-2412	1.5		1.0	1.0	1.0	1.5	1.5
U94-2236	1.4		1.0	1.0	1.0	1.6	1.5
U94-2306	1.3		1.0	1.0	1.0	1.4	1.4
U94-2429	1.3		1.0	1.0	1.0	1.3	1.5
U94-2529	1.2		1.0	1.0	1.0	1.4	1.5
U94-2629	1.6		1.0	1.0	1.0	1.5	2.2
U94-3412	1.3		1.0	1.0	2.0	1.4	1.4
U94-3518	1.3		1.0	1.0	1.0	1.4	1.4

UNIFORM TEST III, 1996

SEED QUALITY (score)

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	1.5	1.0	1.0	1.0	3.0	3.0	3.0
Charleston (dt1)	1.5	1.0	1.0	1.0	2.0	2.0	1.0
IA2022 (II)	1.9	1.0	1.0	1.0	3.0	2.0	1.0
Iroquois (III)	1.4	1.0	1.0	1.0	3.0	2.0	1.0
Macon (L)	1.6	1.0	1.0	1.0	2.0	2.0	1.0
A94-774016	1.5	1.0	1.0	1.0	3.0	2.0	2.0
A94-774018	1.8	1.0	1.0	1.5	2.0	2.0	1.0
A94-774021	1.9	1.0	1.0	1.0	2.0	2.0	1.0
A94-774063	1.6	1.0	1.0	1.0	3.0	2.0	1.0
HC88-15 (dt1)	1.5	1.0	1.0	1.0	2.0	2.0	1.0
HC89-2232 (Dt1)	1.6	1.0	1.0	1.0	2.0	2.0	2.0
HC89-2436 (Dt1)	1.6	1.0	1.0	1.0	3.0	2.0	1.0
HC90-3067 (Dt1)	1.4	1.0	1.0	1.5	2.0	2.0	1.0
HC91-3672 (Dt1)	1.7	1.0	1.0	1.0	2.0	2.0	1.0
HF93-035	2.1	1.0	1.0	1.0	4.0	3.0	3.0
HF93-038	1.9	1.0	1.0	1.0	3.0	3.0	2.0
HF93-083	1.4	1.0	1.0	1.0	3.0	2.0	1.0
HF93-155	1.8	1.0	1.0	1.0	2.0	3.0	2.0
HF93-194	1.8	1.0	1.0	1.5	2.0	2.0	2.0
HS92-2684	1.6	1.0	1.0	1.0	1.0	2.0	1.0
HS93-3762	1.5	1.0	1.0	1.0	2.0	2.0	1.0
HS93-3769	1.6	1.0	1.0	1.0	2.0	2.0	1.0
HS93-3775	1.5	1.0	1.0	1.0	2.0	2.0	1.0
HS93-3990	1.8	1.0	1.0	1.0	2.0	2.0	1.0
SS90-745	1.5	1.0	1.0	1.0	2.0	2.0	2.0
SS95-1000 (SCN)	1.8	1.0	1.0	1.0	2.0	2.0	1.0
U93-2412	1.6	1.0	1.0	1.5	2.0	3.0	1.0
U94-2236	1.4	1.0	1.0	1.0	3.0	2.0	1.0
U94-2306	1.3	1.0	1.0	1.0	2.0	2.0	2.0
U94-2429	1.7	1.0	1.0	1.0	3.0	2.0	2.0
U94-2529	1.5	1.0	1.0	1.0	2.0	2.0	1.0
U94-2629	1.9	1.0	1.0	1.0	4.0	2.0	2.0
U94-3412	1.8	1.0	1.0	1.0	2.0	2.0	1.0
U94-3518	1.5	1.0	1.0	1.0	2.0	2.0	1.0

UNIFORM TEST III, 1996

SEED QUALITY (score)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	1.0	1.0	2.0	3.0	----	2.0
Charleston (dt1)	1.0	2.0	1.3	2.0	1.3	1.0
IA2022 (II)	1.2	1.0	1.7	2.0	1.3	2.0
Iroquois (III)	1.0	1.0	1.3	2.0	1.0	1.0
Macon (L)	1.0	1.0	1.3	2.0	1.0	1.0
A94-774016	1.5	1.0	1.3	2.0	1.0	1.0
A94-774018	2.0	3.0	1.3	2.3	1.3	1.0
A94-774021	1.5	3.0	2.0	2.7	1.0	2.0
A94-774063	1.5	2.0	1.7	2.3	1.0	1.0
HC88-15 (dt1)	1.0	1.0	1.7	2.0	1.0	1.0
HC89-2232 (Dt1)	1.2	1.0	1.3	1.7	1.3	1.0
HC89-2436 (Dt1)	1.3	2.0	1.0	2.0	1.3	1.0
HC90-3067 (Dt1)	1.3	1.0	1.7	2.0	1.0	1.0
HC91-3672 (Dt1)	1.3	2.0	1.3	2.0	1.3	1.0
HF93-035	1.8	1.0	1.7	3.0	1.3	2.0
HF93-038	1.5	1.0	1.7	2.7	1.0	1.0
HF93-083	1.8	2.0	1.3	2.7	1.0	1.0
HF93-155	1.8	1.0	2.0	3.0	1.3	1.0
HF93-194	1.5	1.0	2.0	3.0	1.0	1.0
HS92-2684	1.0	1.0	1.0	2.7	1.0	1.0
HS93-3762	1.0	1.0	1.0	1.7	1.0	1.0
HS93-3769	1.3	1.0	1.0	2.0	1.0	1.0
HS93-3775	1.2	2.0	1.3	2.0	1.0	1.0
HS93-3990	1.0	1.0	1.0	2.0	1.0	1.0
SS90-745	1.0	1.0	1.3	2.3	1.0	1.0
SS95-1000 (SCN)	1.0	2.0	1.0	2.3	1.0	1.0
U93-2412	1.3	3.0	1.7	2.0	1.7	2.0
U94-2236	1.2	2.0	1.3	2.0	1.0	1.0
U94-2306	1.2	1.0	1.7	1.3	1.3	1.0
U94-2429	1.3	1.0	1.3	2.0	1.0	1.0
U94-2529	1.0	1.0	1.3	1.7	1.0	1.0
U94-2629	1.8	3.0	1.7	2.0	1.0	1.0
U94-3412	1.0	2.0	1.3	2.0	1.0	1.0
U94-3518	1.0	3.0	1.7	1.7	1.0	1.0

UNIFORM TEST III, 1996

SEED QUALITY (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	1.0	2.5	1.0
Charleston (dt1	1.0	1.5	1.0
IA2022 (II)	1.0	1.8	1.0
Iroquois (III)	1.0	1.5	1.0
Macon (L)	1.0	1.3	1.0
A94-774016	1.0	2.0	1.0
A94-774018	1.0	2.5	1.0
A94-774021	1.0	1.8	1.0
A94-774063	1.0	2.0	1.0
HC88-15 (dt1)	1.0	1.2	1.0
HC89-2232 (Dt1)	1.0	1.5	1.0
HC89-2436 (Dt1)	1.0	1.5	1.0
HC90-3067 (Dt1)	1.0	1.2	2.0
HC91-3672 (Dt1)	1.0	1.5	1.0
HF93-035	1.0	1.5	1.0
HF93-038	1.0	1.8	1.0
HF93-083	1.0	1.8	2.0
HF93-155	1.0	1.8	2.0
HF93-194	1.0	1.3	2.0
HS92-2684	1.0	1.3	1.0
HS93-3762	1.0	1.3	1.0
HS93-3769	1.0	1.5	1.0
HS93-3775	1.0	1.2	1.0
HS93-3990	1.0	1.2	1.0
SS90-745	1.0	1.3	1.0
SS95-1000 (SCN)	1.0	1.8	1.0
U93-2412	1.0	1.3	1.0
U94-2236	1.0	1.0	2.0
U94-2306	1.0	1.3	2.0
U94-2429	1.0	1.0	1.0
U94-2529	1.0	1.0	1.0
U94-2629	1.0	1.5	2.0
U94-3412	1.0	1.2	1.0
U94-3518	1.0	1.3	1.0

UNIFORM TEST III, 1996

SEED SIZE (g/100)

Strain	Mean 21 Tests	George-town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg-way IL
A92-726034 (SCN)	17.7		17.0	18.6	16.3	16.8	17.0
Charleston (dt1)	15.0		14.9	15.4	13.8	13.4	13.8
IA2022 (II)	15.7		15.2	17.0	15.1	15.5	16.2
Iroquois (III)	15.5		15.4	17.6	15.4	14.3	15.2
Macon (L)	17.7		17.3	19.9	17.6	16.2	15.9
A94-774016	15.8		15.2	17.4	14.8	13.5	16.6
A94-774018	15.1		15.8	16.4	14.6	12.6	14.6
A94-774021	15.5		16.0	16.8	14.6	13.2	15.3
A94-774063	14.9		15.4	17.1	14.6	12.7	14.0
HC88-15 (dt1)	15.8		14.8	15.7	14.5	14.7	17.0
HC89-2232 (Dt1)	15.2		15.0	15.6	14.9	14.8	15.2
HC89-2436 (Dt1)	14.9		14.6	14.4	13.6	14.3	15.3
HC90-3067 (Dt1)	14.5		14.2	15.4	13.8	13.6	13.4
HC91-3672 (Dt1)	17.0		16.5	18.4	16.4	15.2	16.4
HF93-035	19.5		19.0	21.2	18.3	13.2	21.1
HF93-038	18.3		17.6	19.4	17.0	17.2	19.2
HF93-083	18.0		17.2	19.0	16.8	17.0	18.0
HF93-155	17.7		15.8	20.0	15.4	16.3	17.0
HF93-194	17.8		16.6	18.7	15.8	18.1	18.9
HS92-2684	16.4		16.2	19.0	16.0	14.7	17.3
HS93-3762	16.3		16.0	18.3	16.4	13.5	16.6
HS93-3769	15.7		15.6	16.4	15.8	13.8	15.1
HS93-3775	16.0		15.8	17.6	16.2	13.7	15.0
HS93-3990	15.4		15.3	17.2	16.0	12.9	14.9
SS90-745	15.8		15.6	17.8	15.1	13.6	15.1
SS95-1000 (SCN)	14.6		14.3	15.0	14.2	14.0	14.1
U93-2412	17.8		17.4	19.1	17.0	15.5	16.5
U94-2236	16.0		15.1	17.6	15.2	15.5	16.2
U94-2306	15.2		15.1	17.0	14.6	13.4	16.0
U94-2429	14.1		13.8	15.7	13.2	13.6	13.3
U94-2529	14.5		14.0	16.3	14.9	12.8	14.5
U94-2629	16.3		15.9	17.2	16.0	15.1	15.6
U94-3412	15.0		14.6	16.8	14.5	13.0	13.7
U94-3518	15.9		15.2	18.2	15.3	15.7	15.4

UNIFORM TEST III, 1996

SEED SIZE (g/100)

Strain	Urbana IL	Bluff-ton IN	Butler-ville IN	Lafay-ette IN	Man-hattan KS	Pow-hattan KS	Lexing-ton KY
A92-726034 (SCN)	20.2	18.3	17.4	15.5	19.4	20.4	18.1
Charleston (dt1)	15.5	15.3	14.5	15.7	17.8	17.0	16.3
IA2022 (II)	18.5	14.6	14.5	15.2	18.3	18.7	16.9
Iroquois (III)	14.3	14.9	15.0	16.5	17.3	19.2	16.7
Macon (L)	17.9	17.6	15.8	17.4	21.1	20.4	19.2
A94-774016	17.7	15.0	16.2	14.4	19.2	17.0	16.8
A94-774018	14.8	14.4	14.1	15.5	17.5	16.8	16.9
A94-774021	14.6	15.4	14.9	15.3	17.3	18.2	18.0
A94-774063	14.8	14.8	13.5	14.3	16.3	17.1	15.4
HC88-15 (dt1)	16.1	15.2	16.2	14.6	18.4	18.3	16.2
HC89-2232 (Dt1)	14.1	15.1	14.1	16.7	17.1	16.4	16.7
HC89-2436 (Dt1)	14.0	13.9	13.1	14.2	23.4	15.8	15.2
HC90-3067 (Dt1)	13.8	13.0	13.8	15.9	16.2	16.0	16.5
HC91-3672 (Dt1)	17.1	16.4	15.2	17.1	19.4	19.0	18.5
HF93-035	20.6	17.9	18.2	17.8	24.8	24.0	22.0
HF93-038	19.4	17.2	18.4	15.5	21.1	23.5	21.6
HF93-083	20.8	17.1	17.2	16.5	21.5	22.9	18.7
HF93-155	19.4	17.8	17.9	16.6	20.5	22.0	18.9
HF93-194	19.2	17.3	18.0	15.8	21.5	20.7	19.8
HS92-2684	15.6	16.5	16.0	16.1	18.4	18.8	18.6
HS93-3762	15.8	16.4	15.7	16.0	19.5	18.4	19.3
HS93-3769	15.2	15.3	16.0	15.3	17.7	18.3	18.3
HS93-3775	15.0	16.4	15.7	16.7	17.6	17.9	17.8
HS93-3990	14.8	14.9	14.4	15.5	17.4	16.0	17.1
SS90-745	16.0	16.1	15.4	15.8	17.7	17.9	17.4
SS95-1000 (SCN)	16.3	15.5	14.4	13.8	16.5	16.9	16.6
U93-2412	19.2	18.0	18.1	16.6	21.6	19.7	18.8
U94-2236	16.3	14.5	16.0	15.1	18.6	19.2	17.0
U94-2306	15.4	15.2	14.4	14.8	17.1	16.6	16.9
U94-2429	13.1	14.6	13.7	12.2	18.0	16.9	16.4
U94-2529	14.9	14.8	14.1	14.1	16.3	17.0	14.9
U94-2629	16.3	16.1	16.0	15.9	18.1	19.7	18.2
U94-3412	15.8	15.4	14.6	14.6	16.8	15.8	16.4
U94-3518	17.3	16.1	15.5	14.5	18.2	18.2	17.2

UNIFORM TEST III, 1996

SEED SIZE (g/100)

Strain	Queens-town MD	Colum-bia MO	Tekamah NE	York NE	Adel-phia NJ	Hoyt-ville OH
A92-726034 (SCN)	17.6	16.7	19.1	18.0	----	15.8
Charleston (dt1)	14.3	14.6	15.8	15.6	13.7	14.3
IA2022 (II)	15.6	14.8	17.1	15.9	12.0	13.2
Iroquois (III)	16.0	15.6	16.8	16.0	12.7	14.0
Macon (L)	17.7	15.7	19.2	19.7	16.7	16.2
A94-774016	15.6	14.0	17.1	17.3	14.3	14.9
A94-774018	15.1	13.7	17.8	16.4	13.3	13.9
A94-774021	14.6	15.1	16.8	16.7	14.0	14.3
A94-774063	15.7	13.8	16.4	16.8	14.7	13.6
HC88-15 (dt1)	16.5	16.6	15.6	17.2	14.3	14.0
HC89-2232 (Dt1)	15.2	13.2	16.3	16.1	13.7	14.4
HC89-2436 (Dt1)	14.4	12.9	15.8	16.1	13.3	14.0
HC90-3067 (Dt1)	16.4	12.9	15.8	16.1	13.0	12.9
HC91-3672 (Dt1)	17.2	16.8	18.9	17.7	14.7	16.8
HF93-035	20.4	18.7	20.2	21.4	16.3	18.0
HF93-038	18.1	17.1	19.0	20.2	17.0	15.5
HF93-083	19.8	17.1	17.6	19.9	14.3	16.4
HF93-155	19.0	17.0	19.2	20.0	15.3	14.6
HF93-194	18.1	16.6	18.5	19.1	15.3	15.7
HS92-2684	16.6	15.0	18.1	18.0	14.3	13.1
HS93-3762	16.2	14.1	18.5	18.0	14.3	13.2
HS93-3769	15.9	14.7	17.8	17.0	14.0	13.8
HS93-3775	16.6	14.3	17.9	17.1	14.0	14.7
HS93-3990	15.4	13.9	17.5	17.1	13.7	14.9
SS90-745	16.0	13.6	17.7	17.7	15.0	13.7
SS95-1000 (SCN)	14.3	13.7	15.4	15.8	13.0	12.5
U93-2412	18.9	15.4	19.6	19.4	15.7	15.9
U94-2236	16.8	15.8	17.5	17.2	13.3	15.5
U94-2306	16.6	13.4	16.1	17.3	13.0	14.1
U94-2429	13.3	13.4	15.8	15.6	12.0	13.3
U94-2529	15.2	12.8	15.9	15.5	13.3	12.7
U94-2629	16.6	15.4	18.1	17.0	13.3	16.3
U94-3412	15.2	11.9	16.6	16.4	13.0	13.9
U94-3518	16.5	14.6	17.9	17.2	13.0	13.7

UNIFORM TEST III, 1996

SEED SIZE (g/100)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH
A92-726034 (SCN	17.5	17.0	16.6
Charleston (dt1	15.7	14.6	13.7
IA2022 (II)	15.1	15.0	14.9
Iroquois (III)	15.3	14.8	13.5
Macon (L)	16.3	17.6	15.8
A94-774016	15.2	16.1	14.5
A94-774018	14.6	14.9	13.1
A94-774021	15.5	15.1	14.1
A94-774063	15.1	14.1	13.4
HC88-15 (dt1)	16.0	14.9	14.5
HC89-2232 (Dt1)	15.0	14.8	14.1
HC89-2436 (Dt1)	15.6	14.8	13.8
HC90-3067 (Dt1)	14.3	13.6	13.7
HC91-3672 (Dt1)	17.4	16.4	15.1
HF93-035	18.3	20.6	18.5
HF93-038	16.9	18.5	15.4
HF93-083	17.2	18.1	15.2
HF93-155	16.9	17.8	15.0
HF93-194	17.0	17.4	15.3
HS92-2684	17.0	15.8	14.2
HS93-3762	16.4	16.3	13.0
HS93-3769	15.9	15.3	13.2
HS93-3775	15.4	15.7	13.9
HS93-3990	16.4	14.9	12.9
SS90-745	15.4	15.4	14.7
SS95-1000 (SCN)	14.0	14.0	12.9
U93-2412	17.0	18.1	15.7
U94-2236	15.1	15.3	13.0
U94-2306	14.5	15.0	13.0
U94-2429	12.7	12.8	13.1
U94-2529	13.9	13.7	13.6
U94-2629	14.6	16.6	13.9
U94-3412	15.3	14.1	16.1
U94-3518	15.2	15.6	13.9

UNIFORM TEST III, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lafayette IN	Lincoln NB	Hoytville OH
A92-726034 (SCN	41.2	42.5	39.8	40.1	41.9	41.8
Charleston (dtl	41.8	42.9	41.4	41.0	42.4	41.4
IA2022 (II)	41.5	41.3	40.2	40.8	42.4	43.0
Iroquois (III)	41.8	41.3	41.3	41.7	43.1	41.6
Macon (L)	41.1	40.4	40.8	41.2	41.8	41.3
A94-774016	40.4	40.6	39.9	39.6	40.8	41.1
A94-774018	40.3	39.0	40.2	41.3	41.0	39.9
A94-774021	39.8	39.8	38.9	40.0	39.9	40.3
A94-774063	41.5	40.5	40.8	42.2	42.1	42.1
HC88-15 (dt1)	39.2	37.9	39.2	39.4	40.0	39.3
HC89-2232 (Dt1)	42.5	42.6	42.1	42.2	43.2	42.2
HC89-2436 (Dt1)	42.6	43.6	41.2	41.7	42.9	43.5
HC90-3067 (Dt1)	40.9	42.1	39.6	40.8	42.4	39.5
HC91-3672 (Dt1)	40.8	41.4	41.1	39.3	41.1	41.3
HF93-035	41.3	40.6	41.3	39.9	41.7	42.9
HF93-038	40.4	37.9	40.9	40.4	41.3	41.3
HF93-083	41.4	42.1	40.4	40.7	41.5	42.5
HF93-155	40.0	39.7	39.7	39.1	41.2	40.5
HF93-194	42.2	41.9	42.3	41.0	43.2	42.6
HS92-2684	41.7	41.4	41.4	41.5	42.4	41.9
HS93-3762	41.0	41.3	40.6	40.3	41.3	41.6
HS93-3769	41.0	41.0	41.1	39.9	41.4	41.4
HS93-3775	42.1	41.8	42.1	41.2	42.3	43.1
HS93-3990	41.9	41.8	41.5	41.6	42.2	42.3
SS90-745	41.0	41.2	40.2	40.2	42.1	41.2
SS95-1000 (SCN)	41.3	41.2	40.1	41.6	41.5	42.1
U93-2412	42.0	42.1	41.9	41.0	43.2	42.0
U94-2236	41.4	41.2	41.4	40.2	41.9	42.4
U94-2306	41.7	42.4	41.3	40.0	42.8	42.1
U94-2429	42.3	43.0	40.9	42.6	43.2	41.6
U94-2529	41.5	42.4	41.2	41.2	41.2	41.4
U94-2629	42.2	42.5	41.1	41.9	42.9	42.8
U94-3412	41.7	42.4	41.1	40.7	42.1	42.2
U94-3518	41.4	40.9	41.9	40.3	42.7	41.0

UNIFORM TEST III, 1996

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lafayette IN	Lincoln NB	Hoytville OH
A92-726034 (SCN	20.6	20.9	20.2	20.4	20.6	20.9
Charleston (dt1	19.9	20.2	18.9	19.7	20.3	20.6
IA2022 (II)	20.7	21.4	19.6	20.5	20.9	21.0
Iroquois (III)	20.6	21.6	19.4	20.1	20.4	21.6
Macon (L)	20.7	22.0	19.4	20.1	20.5	21.5
A94-774016	20.9	21.5	19.9	20.8	20.8	21.4
A94-774018	21.4	22.8	20.4	20.6	20.6	22.8
A94-774021	20.6	21.8	19.8	20.6	20.3	20.7
A94-774063	21.2	22.1	20.4	20.8	21.1	21.8
HC88-15 (dt1)	21.1	23.1	19.7	20.6	20.7	21.6
HC89-2232 (Dt1)	19.7	20.2	18.2	19.9	19.6	20.7
HC89-2436 (Dt1)	19.6	20.4	18.8	18.9	19.8	20.3
HC90-3067 (Dt1)	21.3	21.9	19.3	21.0	21.0	23.1
HC91-3672 (Dt1)	21.2	22.0	19.5	21.5	21.1	22.1
HF93-035	21.1	22.2	19.5	21.1	21.1	21.6
HF93-038	21.3	23.8	19.6	20.0	21.5	21.7
HF93-083	20.6	21.3	20.2	20.4	20.6	20.5
HF93-155	22.0	23.2	20.8	21.5	21.5	22.8
HF93-194	20.1	20.9	19.0	19.9	19.9	20.6
HS92-2684	20.9	22.1	19.9	20.6	20.7	21.0
HS93-3762	20.7	21.2	20.1	20.8	20.5	20.9
HS93-3769	20.7	21.2	19.8	21.2	20.9	20.5
HS93-3775	20.8	21.5	19.5	20.9	20.8	21.2
HS93-3990	20.6	21.2	19.7	20.6	20.6	20.9
SS90-745	21.1	21.3	20.4	21.2	20.8	21.6
SS95-1000 (SCN)	20.6	21.1	20.0	20.4	20.4	21.0
U93-2412	20.4	21.5	19.4	20.1	20.0	21.1
U94-2236	21.0	21.7	19.5	21.2	21.3	21.4
U94-2306	20.9	21.4	20.2	20.7	20.4	21.6
U94-2429	20.3	20.7	19.5	19.9	20.7	20.8
U94-2529	20.3	20.4	19.3	19.9	20.5	21.3
U94-2629	20.2	21.0	19.3	19.9	20.0	20.7
U94-3412	20.6	21.4	19.8	20.6	20.7	20.7
U94-3518	20.1	20.9	18.9	20.1	20.2	20.3

PRELIMINARY TEST IIIA, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2022 (II)	Asgrow A3205 x Dairyland DSR 304	F5	
2.	Iroquois (III)	LN81-1029 x Asgrow A2943	F5	Rps?
3.	Macon (L)	Sherman x Resnik	F5	
4.	A95-582019	AgriPro AP2535 x A89-144036	F5	
5.	A95-681003	Pioneer P9341 x Northrup King S20-20	F5	
6.	A95-681005	Asgrow A2543 x Pioneer P9241	F5	
7.	A95-681006	Pioneer P9341 x Pioneer P9241	F5	
8.	A95-681026	AgriPro AP2535 x Pioneer P9273	F5	
9.	A95-681031	Pioneer P9341 x AgriPro AP2535	F5	
10.	A95-681032	Pioneer P9341 x AgriPro AP2535	F5	
11.	A95-682002	IA2008 x Pioneer P9273	F5	BSR
12.	A95-682003	IA2008 x Pioneer P9273	F5	BSR
13.	A95-682026	Pioneer P9273 x A89-144036	F5	BSR
14.	C1930	Resnik x (PI 468.381 x Spencer)	F5	
15.	C1931	L86K-114 x Edison	F5	
16.	C1932	Chapman x Edison	F5	
17.	C1933	Chapman x Edison	F5	
18.	C1934	PRX334-219 x Chapman	F5	
19.	C1935	PRX334-219 x Chapman	F5	
20.	C1940	CRS3-998-24-1 x C1813	F5	
21.	C1941	A88-121019 x CX1328-22-3	F3	
22.	C1942	CRS7C1	F4	
23.	HC92-689	Resnik x HC85-5273	F5	Dt1
24.	HC92-1826	Resnik x HC85-5273	F5	Dt1
25.	HF94-090	OX8459-3-9 x Edison	F5	Rps1-k
26.	HF94-139	GR8936 x LN84-18266	F5	Rps1-k
27.	HF94-155	A86-204022 x HM8734	F5	Rps1-k
28.	HF94-161	OX8459-3-9 x Edison	F5	Rps1-k
29.	LG90-2550	LG82-8224 x LG82-8195	F6	Dt2?
30.	ORC 9508	RCAT Tabby x Sturdy	F5	
31.	U95-3135	MSBP1	F7	
32.	U95-3213	MSBP1	F7	
33.	U95-3231	MSBP1	F7	
34.	U95-3308	MSBP1	F7	
35.	U95-3323	MSBP1	F7	
36.	U95-3420	MSBP1	F6	
37.	U95-3435	MSBP1	F7	
38.	U95-3708	K1180 x PI 437.088A	F6	
39.	U95-3734	ORC8905 x PI 437.088A	F6	
40.	U95-3735	Uphoff 3100 x PI 437.088A	F7	

PRELIMINARY TEST IIIA, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	BSR Resistance % Incid.	BSR Resistance % Sev.
IA2022 (II)	PGBSYIbI	4.5	1		
Iroquois (III)	PGBDYIbI	4.4	1		
Macon (L)	WTBDYBlI	4.0	1		
A95-582019	WTBDYBrI	3.3	2	5	7
A95-681003	WG+TTDYYI	3.4	1	75	24
A95-681005	PTBDYHI	3.3	1	85	38
A95-681006	PG+TBSYHI	4.2	1	60	22
A95-681026	PGBIYIbI	3.4	2	70	33
A95-681031	PTBDYBlI	3.0	1	95	41
A95-681032	PG+TBDYBrI	3.1	1	65	26
A95-682002	PGTIYIbI	3.0	2	45	25
A95-682003	PGTDYIbI	3.2	2	15	17
A95-682026	PTBDYBlI	3.6	2	35	25
C1930	PTTDYHI	3.1	1		
C1931	PTTDYBlI	4.4	1		
C1932	PTTDYBlI	3.8	1		
C1933	PGTDYIbI	3.3	1		
C1934	PTTIYBlI	3.5	1		
C1935	P+WGTDYIbI	3.5	1		
C1940	PGTDYBfI	3.3	1		
C1941	PGBSYBfI	4.2	1		
C1942	PTTDYHI	3.9	1		
HC92-689	PTTDYBlI	3.9	1		
HC92-1826	PTTDYBlI	3.5	1		
HF94-090	WTTDYBlI	4.0	1		
HF94-139	WTTDYBlI	3.9	1		
HF94-155	PGBDYIbI	4.0	1		
HF94-161	WTTDYBlI	4.0	1		
LG90-2550	PTTSYBlI	2.2	1		
ORC 9508	WGTSYYI	2.9	1		
U95-3135	PGTSYIbI	3.8	1		
U95-3213	PGTDYIbI	4.4	1		
U95-3231	PGTDYBfI	4.2	1		
U95-3308	PGBDYYI	4.4	1		
U95-3323	PGBDYYI	3.9	1		
U95-3420	PTTSYBlI	4.4	1		
U95-3435	PTTDYBlI	4.6	1		
U95-3708	PGBSYBfI	3.2	1		
U95-3734	WGTSYBfI	3.6	1		
U95-3735	WTTDYBlI	3.0	1		

PRELIMINARY TEST IIIA, 1996

DISEASE DATA

Strain	PR Lafayette Race 7	Hard Seed %	PS Lafayette %	PSB Lafayette %	PSB Vinc. %
IA2022 (II)	S	10	56	4	
Iroquois (III)	S	0	48	2	
Macon (L)	R	0	78	10	
A95-582019	R	0	32	0	
A95-681003	R	8	16	2	
A95-681005	R	0	56	4	
A95-681006	R	0	14	0	
A95-681026	R	0	10	2	
A95-681031	R	8	6	0	
A95-681032	H	2	18	0	
A95-682002	R	4	40	0	
A95-682003	S	0	54	0	
A95-682026	R	0	20	0	
C1930	R	4	18	0	64
C1931	R	0	26	2	36
C1932	R	2	30	0	58
C1933	R	4	32	0	34
C1934	R	0	28	0	34
C1935	S	4	56	2	46
C1940	R	0	62	0	36
C1941	R	6	60	2	54
C1942	S	0	30	2	64
HC92-689	H	0	38	2	
HC92-1826	R	0	68	4	
HF94-090	R	2	56	0	
HF94-139	R	0	74	0	
HF94-155	R	4	18	0	
HF94-161	R	0	12	0	
LG90-2550	R	0	22	0	
ORC 9508	R	6	44	0	
U95-3135	S	20	34	0	
U95-3213	H	10	12	0	
U95-3231	H	0	52	0	
U95-3308	R	0	28	0	
U95-3323	R	0	32	0	
U95-3420	R	0	60	0	
U95-3435	R	0	24	0	
U95-3708	R	0	30	0	
U95-3734	R	0	48	2	
U95-3735	R	0	18	2	

PRELIMINARY TEST IIIA, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
IA2022 (II)	53.2	16	0.0	1.3	36	1.4	16.2	41.8	20.5
Iroquois (III)	54.3	9	09/25	1.1	35	1.3	15.6	41.6	20.7
Macon (L)	54.8	6	4.3	1.2	33	1.4	17.6	40.7	20.5
A95-582019	54.1	12	1.1	1.8	36	1.7	17.1	41.8	20.3
A95-681003	53.8	14	2.6	1.4	35	1.5	16.8	41.4	20.5
A95-681005	52.7	22	1.6	1.2	27	1.7	16.6	42.5	20.8
A95-681006	54.4	8	-1.0	1.2	32	1.4	15.3	42.4	20.5
A95-681026	55.2	3	4.2	1.4	34	1.6	16.7	40.1	21.3
A95-681031	53.4	15	1.7	1.5	32	1.5	18.0	42.0	20.7
A95-681032	54.9	5	4.3	1.2	37	1.5	16.4	40.6	20.8
A95-682002	52.9	19	1.3	1.4	34	1.7	16.6	41.5	20.3
A95-682003	51.1	31	-0.2	1.5	34	1.4	15.2	40.6	20.8
A95-682026	55.7	1	1.0	1.4	33	1.7	16.0	40.4	21.2
C1930	49.8	33	6.6	2.1	41	1.7	15.8	42.2	19.0
C1931	52.9	19	0.4	1.1	31	1.1	13.5	41.6	19.7
C1932	52.4	24	3.4	1.3	32	1.5	15.5	41.4	20.7
C1933	48.9	36	0.2	1.2	34	1.4	16.2	39.7	21.8
C1934	48.3	38	6.7	2.3	38	1.6	17.3	41.2	20.5
C1935	53.9	13	6.3	2.1	36	1.8	16.6	40.4	20.9
C1940	51.5	30	3.1	1.4	37	1.3	14.6	42.1	19.8
C1941	54.3	9	0.6	2.2	37	1.7	16.5	39.6	21.4
C1942	47.1	39	0.8	1.2	33	1.6	15.2	46.7	18.3
HC92-689	51.8	28	4.0	1.8	35	1.5	16.2	40.8	20.2
HC92-1826	48.9	36	3.9	1.6	36	1.6	16.4	41.1	20.1
HF94-090	53.1	17	2.6	1.4	34	1.4	17.1	41.6	20.9
HF94-139	51.1	31	3.3	1.4	32	1.4	17.0	42.6	20.5
HF94-155	51.6	29	3.9	1.7	36	1.3	15.0	40.8	20.5
HF94-161	52.7	22	3.2	1.5	33	1.4	16.6	42.0	20.9
LG90-2550	49.0	35	1.1	1.5	30	1.4	14.7	39.9	20.4
ORC 9508	55.2	3	5.6	1.3	34	1.4	16.3	41.8	20.2
U95-3135	54.2	11	2.7	1.5	34	1.3	15.4	39.3	21.2
U95-3213	54.8	6	3.4	1.8	35	1.9	16.8	40.6	20.7
U95-3231	55.5	2	4.7	1.7	33	1.5	16.5	41.5	20.6
U95-3308	51.9	27	2.4	1.4	33	1.3	15.0	39.5	21.5
U95-3323	49.1	34	2.4	1.8	34	1.9	18.5	42.0	20.4
U95-3420	52.3	25	4.8	1.5	35	1.2	18.3	39.7	21.8
U95-3435	53.0	18	4.7	1.2	35	1.5	17.2	40.2	21.3
U95-3708	45.3	40	-1.1	2.1	31	1.7	15.5	43.6	19.7
U95-3734	52.8	21	5.2	1.7	34	1.3	16.0	41.5	21.0
U95-3735	52.1	26	-0.8	1.3	34	1.5	15.0	41.9	20.1

118.9 Days After Planting

PRELIMINARY TEST IIIA, 1996

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	53.2	42.9	49.4	48.4	54.0	54.0
Iroquois (III)	54.3	49.7	52.5	38.4	55.2	62.2
Macon (L)	54.8	51.7	46.3	46.0	50.8	65.6
A95-582019	54.1	48.9	46.5	42.2	59.5	63.8
A95-681003	53.8	44.8	46.3	41.1	57.0	62.2
A95-681005	52.7	50.4	50.9	32.1	57.0	58.9
A95-681006	54.4	46.4	49.0	43.9	56.8	62.1
A95-681026	55.2	51.3	49.0	42.7	58.1	67.4
A95-681031	53.4	43.6	47.1	38.1	51.3	59.8
A95-681032	54.9	50.5	49.2	38.8	55.5	67.1
A95-682002	52.9	51.3	49.8	39.2	58.3	57.1
A95-682003	51.1	49.3	47.4	35.9	56.8	61.2
A95-682026	55.7	44.3	47.0	42.8	61.3	61.3
C1930	49.8	44.6	43.2	34.9	53.8	63.5
C1931	52.9	46.8	45.7	42.1	58.4	60.4
C1932	52.4	48.9	45.6	36.8	53.9	61.4
C1933	48.9	40.6	41.9	32.9	51.2	62.4
C1934	48.3	39.4	39.8	39.2	46.7	58.7
C1935	53.9	46.0	45.1	40.0	55.2	65.8
C1940	51.5	47.1	44.3	37.4	55.9	59.4
C1941	54.3	44.9	51.5	40.0	60.2	60.2
C1942	47.1	39.6	42.0	41.5	48.1	48.8
HC92-689	51.8	47.1	46.5	35.0	55.3	64.9
HC92-1826	48.9	42.8	39.3	30.8	50.8	66.5
HF94-090	53.1	47.6	47.8	33.7	57.0	58.7
HF94-139	51.1	44.7	45.1	35.2	54.8	62.2
HF94-155	51.6	49.6	44.4	34.3	51.3	71.3
HF94-161	52.7	46.1	48.6	37.0	56.5	57.4
LG90-2550	49.0	43.5	41.3	37.3	53.7	56.6
ORC 9508	55.2	58.1	52.3	31.6	61.8	66.1
U95-3135	54.2	53.4	46.6	43.8	58.5	68.8
U95-3213	54.8	47.8	47.7	41.8	59.1	65.0
U95-3231	55.5	50.0	50.1	49.4	60.8	66.9
U95-3308	51.9	41.7	47.3	41.6	57.0	66.1
U95-3323	49.1	38.7	46.7	39.3	50.5	67.3
U95-3420	52.3	50.1	41.9	44.2	54.9	62.3
U95-3435	53.0	46.3	46.5	39.0	48.8	61.2
U95-3708	45.3	41.5	37.4	37.0	43.0	47.9
U95-3734	52.8	45.1	44.7	40.6	49.5	70.5
U95-3735	52.1	45.2	47.5	28.3	53.8	64.7
C.V. (%)		5.9	5.1	11.7	6.9	3.8
L.S.D. (5%)		5.5	4.7	9.3	7.7	4.0
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 1996

YIELD (bu/a)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	44.8	58.8	63.4	45.5	70.7
Iroquois (III)	51.0	60.5	57.8	47.9	68.1
Macon (L)	47.7	62.0	62.4	42.2	73.0
A95-582019	38.2	61.8	67.5	43.1	69.8
A95-681003	40.8	64.1	65.4	48.3	67.5
A95-681005	36.9	63.9	62.6	41.6	72.3
A95-681006	41.3	66.3	65.1	45.3	67.9
A95-681026	29.5	60.7	69.0	45.8	78.4
A95-681031	45.4	64.3	63.3	45.2	75.5
A95-681032	41.9	64.4	61.8	44.4	75.7
A95-682002	28.9	66.7	67.2	39.1	71.3
A95-682003	31.7	55.7	62.2	47.2	63.8
A95-682026	49.2	67.9	66.1	43.3	73.3
C1930	37.9	56.9	52.8	41.2	68.9
C1931	40.4	64.5	58.0	44.8	68.2
C1932	41.8	62.6	57.2	47.2	68.8
C1933	36.1	60.0	59.5	44.1	60.1
C1934	48.2	51.0	52.0	42.4	65.3
C1935	49.3	54.6	61.6	50.8	70.8
C1940	38.7	60.8	61.3	42.9	67.1
C1941	43.6	63.8	63.7	43.7	71.1
C1942	37.8	50.7	52.0	47.1	62.9
HC92-689	40.3	58.7	55.5	46.6	68.5
HC92-1826	39.8	49.7	55.5	45.9	68.0
HF94-090	47.3	61.8	59.8	46.8	70.7
HF94-139	45.6	57.2	61.1	40.0	64.6
HF94-155	42.1	58.4	56.4	42.1	66.1
HF94-161	44.4	60.1	61.5	46.8	68.6
LG90-2550	42.2	49.4	56.0	48.1	61.4
ORC 9508	50.4	53.6	58.4	41.8	77.6
U95-3135	38.9	59.2	61.6	45.0	66.2
U95-3213	42.9	60.6	66.8	49.7	66.3
U95-3231	29.0	62.6	62.5	43.2	80.3
U95-3308	42.4	64.4	59.0	40.7	58.4
U95-3323	30.0	51.7	53.7	43.5	69.3
U95-3420	31.2	55.4	63.3	46.6	72.7
U95-3435	42.9	62.5	63.9	49.3	69.6
U95-3708	35.7	49.9	50.0	44.5	66.4
U95-3734	45.2	60.0	59.7	44.6	68.5
U95-3735	41.8	62.3	65.2	39.4	73.2
C.V. (%)	12.9	8.5	5.5	7.8	7.8
L.S.D. (5%)	10.7	14.5	9.6	4.6	11.0
Row Sp. (In.)	30	30	30	30	7.5
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 1996

YIELD RANK

Strain	Yield Rank	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	16	33	7	2	25	38
Iroquois (III)	9	10	1	23	21	20
Macon (L)	6	3	24	3	33	12
A95-582019	12	13	21	9	5	16
A95-681003	14	27	24	14	11	20
A95-681005	22	7	4	37	11	32
A95-681006	8	20	9	5	15	23
A95-681026	3	4	9	8	10	4
A95-681031	15	31	17	24	30	30
A95-681032	5	6	8	22	19	6
A95-682002	19	4	6	19	9	36
A95-682003	31	12	15	30	15	26
A95-682026	1	30	18	7	2	25
C1930	33	29	33	33	27	17
C1931	19	19	26	10	8	28
C1932	24	13	27	29	26	24
C1933	36	37	35	36	32	18
C1934	38	39	38	19	39	33
C1935	13	23	28	16	21	11
C1940	30	17	32	25	18	31
C1941	9	26	3	16	4	29
C1942	39	38	34	13	38	39
HC92-689	28	17	21	32	20	14
HC92-1826	36	34	39	39	33	8
HF94-090	17	16	12	35	11	33
HF94-139	31	28	28	31	24	20
HF94-155	29	11	31	34	30	1
HF94-161	22	22	11	27	17	35
LG90-2550	35	32	37	26	29	37
ORC 9508	3	1	2	38	1	9
U95-3135	11	2	20	6	7	3
U95-3213	6	15	13	11	6	13
U95-3231	2	9	5	1	3	7
U95-3308	27	35	16	12	11	9
U95-3323	34	40	19	18	35	5
U95-3420	25	8	35	4	23	19
U95-3435	18	21	21	21	37	26
U95-3708	40	36	40	27	40	40
U95-3734	21	25	30	15	36	2
U95-3735	26	24	14	40	27	15

PRELIMINARY TEST IIIA, 1996

YIELD RANK

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	11	26	11	16	14
Iroquois (III)	1	21	30	6	25
Macon (L)	6	15	16	32	8
A95-582019	29	17	2	29	16
A95-681003	23	8	6	4	28
A95-681005	32	9	14	35	10
A95-681006	22	3	8	17	27
A95-681026	38	19	1	15	2
A95-681031	9	7	13	18	5
A95-681032	19	6	18	23	4
A95-682002	40	2	3	40	11
A95-682003	35	31	17	7	36
A95-682026	4	1	5	27	6
C1930	30	30	37	36	19
C1931	24	4	29	20	24
C1932	20	12	31	7	20
C1933	33	24	26	24	39
C1934	5	36	38	31	34
C1935	3	33	19	1	13
C1940	28	18	22	30	29
C1941	13	10	10	25	12
C1942	31	37	39	9	37
HC92-689	25	27	35	12	22
HC92-1826	26	39	34	14	26
HF94-090	7	16	24	10	14
HF94-139	8	29	23	38	35
HF94-155	18	28	32	33	33
HF94-161	12	22	21	10	21
LG90-2550	17	40	33	5	38
ORC 9508	2	34	28	34	3
U95-3135	27	25	20	19	32
U95-3213	14	20	4	2	31
U95-3231	39	11	15	28	1
U95-3308	16	5	27	37	40
U95-3323	37	35	36	26	18
U95-3420	36	32	12	12	9
U95-3435	14	13	9	3	17
U95-3708	34	38	40	22	30
U95-3734	10	23	25	21	22
U95-3735	20	14	7	39	7

PRELIMINARY TEST IIIA, 1996

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	0.0		0	-1	-1	-2
Iroquois (III)	09/25		10/04	09/24	10/03	09/17
Macon (L)	4.3		4	2	3	9
A95-582019	1.1		0	-1	2	3
A95-681003	2.6		2	0	3	5
A95-681005	1.6		2	0	1	4
A95-681006	-1.0		0	-3	0	-4
A95-681026	4.2		2	2	3	9
A95-681031	1.7		1	-1	2	5
A95-681032	4.3		4	1	5	7
A95-682002	1.3		-4	-2	0	3
A95-682003	-0.2		-2	-4	0	-1
A95-682026	1.0		0	-2	1	5
C1930	6.6		6	1	7	13
C1931	0.4		2	-3	4	1
C1932	3.4		4	0	4	8
C1933	0.2		-1	0	0	1
C1934	6.7		7	4	8	11
C1935	6.3		6	3	8	11
C1940	3.1		3	1	5	4
C1941	0.6		1	-1	3	0
C1942	0.8		0	-2	0	-2
HC92-689	4.0		6	0	8	5
HC92-1826	3.9		4	-1	5	6
HF94-090	2.6		4	-2	5	1
HF94-139	3.3		4	-1	5	5
HF94-155	3.9		5	0	2	8
HF94-161	3.2		4	-1	6	2
LG90-2550	1.1		1	-2	1	0
ORC 9508	5.6		6	2	5	13
U95-3135	2.7		3	1	4	8
U95-3213	3.4		6	0	8	3
U95-3231	4.7		5	2	5	8
U95-3308	2.4		0	0	1	4
U95-3323	2.4		2	0	1	6
U95-3420	4.8		4	2	5	7
U95-3435	4.7		6	0	6	5
U95-3708	-1.1		-1	-3	-1	-3
U95-3734	5.2		3	2	2	12
U95-3735	-0.8		0	-4	-1	2
Date Planted	05/29		06/15	05/22	06/16	05/21
Days to Mature	118.9		111	125	109	119

PRELIMINARY TEST IIIA, 1996

MATURITY (date)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	-3	0	1	6	0
Iroquois (III)	09/15	10/01	09/25	09/27	09/24
Macon (L)	2	4	7	3	5
A95-582019	-4	0	6	5	-1
A95-681003	-3	5	7	0	4
A95-681005	-3	2	6	2	0
A95-681006	-5	1	1	1	0
A95-681026	-1	7	7	3	6
A95-681031	-3	1	3	2	5
A95-681032	1	5	6	3	7
A95-682002	-3	3	6	8	1
A95-682003	-3	1	6	3	-2
A95-682026	-3	1	5	0	2
C1930	3	8	7	4	10
C1931	-3	1	2	0	0
C1932	-1	4	5	2	5
C1933	-2	1	2	3	-2
C1934	6	8	9	-3	10
C1935	4	9	8	0	8
C1940	-1	4	5	3	4
C1941	-3	1	3	3	-2
C1942	-3	2	5	6	1
HC92-689	-3	7	7	0	6
HC92-1826	1	3	6	3	8
HF94-090	-1	4	6	2	4
HF94-139	-1	6	7	1	4
HF94-155	-2	6	7	3	6
HF94-161	-2	5	7	4	4
LG90-2550	0	2	4	3	1
ORC 9508	2	6	7	4	5
U95-3135	-3	4	6	1	0
U95-3213	-2	5	6	4	1
U95-3231	-3	6	6	5	8
U95-3308	-3	7	6	3	4
U95-3323	-2	2	6	5	2
U95-3420	2	6	6	4	7
U95-3435	1	6	7	3	8
U95-3708	-1	1	0	-2	0
U95-3734	8	8	7	1	4
U95-3735	-4	1	2	0	-3
Date Planted	05/20	06/04	05/20	06/05	05/20
Days to Mature	118	119	128	114	127

PRELIMINARY TEST IIIA, 1996

LODGING (score)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	1.3	1.2	1.3	1.1	1.3	1.0
Iroquois (III)	1.1	1.2	1.0	1.0	1.0	1.0
Macon (L)	1.2	1.2	1.2	1.0	1.3	1.0
A95-582019	1.8	1.4	1.5	1.0	3.0	2.5
A95-681003	1.4	1.3	1.0	1.0	1.3	1.0
A95-681005	1.2	1.3	1.1	1.0	1.0	1.0
A95-681006	1.2	1.3	1.1	1.0	1.0	1.0
A95-681026	1.4	1.3	1.1	1.0	1.5	1.0
A95-681031	1.5	1.4	1.4	1.0	1.8	1.5
A95-681032	1.2	1.2	1.2	1.0	1.5	1.0
A95-682002	1.4	1.4	1.3	1.0	1.5	1.5
A95-682003	1.5	1.6	1.3	1.0	1.0	2.0
A95-682026	1.4	1.2	1.1	1.0	2.5	1.0
C1930	2.1	1.8	1.7	1.0	2.8	2.0
C1931	1.1	1.1	1.0	1.0	1.0	1.0
C1932	1.3	1.3	1.1	1.0	1.5	1.0
C1933	1.2	1.1	1.0	1.0	1.0	1.0
C1934	2.3	1.8	1.9	1.0	3.5	2.0
C1935	2.1	1.6	1.2	1.0	2.8	2.0
C1940	1.4	1.2	1.2	1.0	1.8	1.0
C1941	2.2	1.8	1.9	1.0	3.5	2.5
C1942	1.2	1.1	1.0	1.0	1.0	1.0
HC92-689	1.8	2.0	1.8	1.0	3.0	1.0
HC92-1826	1.6	1.9	1.6	1.0	2.0	1.0
HF94-090	1.4	1.5	1.3	1.0	1.3	1.0
HF94-139	1.4	1.5	1.3	1.0	1.0	1.0
HF94-155	1.7	1.8	1.8	1.0	2.8	1.5
HF94-161	1.5	1.4	1.3	1.0	2.3	1.0
LG90-2550	1.5	1.4	1.6	1.0	2.0	1.0
ORC 9508	1.3	1.1	1.2	1.0	1.5	1.0
U95-3135	1.5	1.5	1.3	1.0	1.8	1.0
U95-3213	1.8	1.9	2.0	1.0	2.8	1.5
U95-3231	1.7	1.5	1.8	1.0	2.5	1.5
U95-3308	1.4	1.2	1.2	1.0	1.5	1.0
U95-3323	1.8	1.5	1.6	1.0	2.0	1.0
U95-3420	1.5	1.5	1.8	1.0	1.5	1.0
U95-3435	1.2	1.3	1.3	1.0	1.3	1.0
U95-3708	2.1	1.7	1.6	1.0	4.3	2.5
U95-3734	1.7	1.5	1.4	1.0	2.0	1.5
U95-3735	1.3	1.2	1.1	1.0	1.8	1.0

PRELIMINARY TEST IIIA, 1996

LODGING (score)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	1.0	2.0	1.5		1.0
Iroquois (III)	1.0	2.0	1.0		1.0
Macon (L)	1.0	2.0	1.0		1.0
A95-582019	1.0	2.5	1.5		2.0
A95-681003	1.0	3.0	1.5		1.5
A95-681005	1.0	2.0	1.0		1.0
A95-681006	1.0	2.0	1.0		1.0
A95-681026	1.0	2.5	1.5		1.3
A95-681031	1.0	2.0	2.0		1.3
A95-681032	1.0	2.0	1.0		1.0
A95-682002	1.0	2.0	1.0		1.5
A95-682003	1.0	2.0	2.0		1.3
A95-682026	1.5	2.0	1.0		1.5
C1930	1.5	3.0	2.5		2.3
C1931	1.0	1.5	1.0		1.0
C1932	1.0	2.0	1.5		1.0
C1933	1.0	2.0	1.5		1.0
C1934	2.0	3.0	3.0		2.5
C1935	2.0	3.0	3.0		2.3
C1940	1.0	2.0	2.0		1.0
C1941	2.0	3.0	2.0		2.0
C1942	1.0	2.0	1.5		1.0
HC92-689	1.0	2.5	2.0		1.5
HC92-1826	1.0	2.5	2.0		1.8
HF94-090	1.0	2.5	1.5		1.3
HF94-139	1.0	2.5	2.0		1.3
HF94-155	1.0	2.0	2.0		1.5
HF94-161	1.0	2.5	2.0		1.3
LG90-2550	1.0	3.0	1.0		1.3
ORC 9508	1.0	2.0	2.0		1.0
U95-3135	1.0	3.0	2.0		1.3
U95-3213	1.0	3.0	1.0		2.0
U95-3231	1.0	2.5	2.0		1.3
U95-3308	1.0	3.0	2.0		1.0
U95-3323	1.5	3.0	2.0		2.8
U95-3420	1.0	3.0	1.5		1.3
U95-3435	1.0	2.0	1.0		1.0
U95-3708	1.0	3.0	2.0		1.8
U95-3734	1.0	3.0	2.0		1.8
U95-3735	1.0	2.0	1.5		1.0

PRELIMINARY TEST IIIA, 1996

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	36	36	36	33	35	42
Iroquois (III)	35	36	38	33	33	40
Macon (L)	33	34	32	31	30	42
A95-582019	36	36	36	35	36	44
A95-681003	35	34	36	32	34	43
A95-681005	27	27	28	26	26	28
A95-681006	32	33	32	31	29	37
A95-681026	34	37	34	33	34	39
A95-681031	32	33	34	31	31	39
A95-681032	37	38	40	33	36	44
A95-682002	34	36	34	28	33	40
A95-682003	34	36	34	29	32	43
A95-682026	33	31	34	29	31	42
C1930	41	39	42	35	41	49
C1931	31	32	32	27	29	39
C1932	32	34	34	28	32	40
C1933	34	35	36	27	34	43
C1934	38	34	40	33	38	44
C1935	36	36	36	31	33	42
C1940	37	36	39	33	35	46
C1941	37	38	40	37	35	44
C1942	33	34	34	32	31	39
HC92-689	35	36	36	34	34	43
HC92-1826	36	36	34	34	32	41
HF94-090	34	34	34	28	32	40
HF94-139	32	32	34	28	30	36
HF94-155	36	34	38	32	35	46
HF94-161	33	34	34	30	31	40
LG90-2550	30	30	32	25	31	33
ORC 9508	34	34	36	27	35	43
U95-3135	34	34	36	28	33	42
U95-3213	35	36	35	32	33	40
U95-3231	33	34	35	30	32	41
U95-3308	33	31	35	27	31	39
U95-3323	34	34	34	31	30	42
U95-3420	35	36	39	32	33	39
U95-3435	35	35	38	31	35	40
U95-3708	31	31	34	28	29	35
U95-3734	34	34	36	30	31	42
U95-3735	34	33	34	29	33	41

PRELIMINARY TEST IIIA, 1996

PLANT HEIGHT (inches)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	26	41	39		36
Iroquois (III)	28	37	37		32
Macon (L)	27	36	36		32
A95-582019	30	36	39		33
A95-681003	27	36	39		37
A95-681005	22	29	28		31
A95-681006	25	34	33		33
A95-681026	23	38	37		31
A95-681031	25	35	32		31
A95-681032	30	40	36		35
A95-682002	24	36	38		33
A95-682003	22	37	41		29
A95-682026	26	33	37		31
C1930	31	49	41		41
C1931	28	29	34		29
C1932	28	31	33		29
C1933	25	36	40		28
C1934	33	35	46		37
C1935	30	40	38		34
C1940	26	38	40		36
C1941	30	39	36		35
C1942	25	35	33		31
HC92-689	23	38	39		35
HC92-1826	30	40	39		38
HF94-090	29	37	37		31
HF94-139	29	34	36		30
HF94-155	28	39	40		35
HF94-161	29	36	36		31
LG90-2550	27	34	29		29
ORC 9508	28	35	36		32
U95-3135	26	36	39		31
U95-3213	29	38	39		34
U95-3231	25	36	34		33
U95-3308	28	35	37		30
U95-3323	26	34	39		33
U95-3420	26	38	38		37
U95-3435	27	36	36		37
U95-3708	25	32	35		30
U95-3734	27	38	34		36
U95-3735	26	36	40		30

PRELIMINARY TEST IIIA, 1996

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	1.4	1.0	1.0	1.5	1.0	3.0
Iroquois (III)	1.3	1.0	1.0	1.4	1.0	2.0
Macon (L)	1.4	1.0	1.0	1.4	1.0	3.0
A95-582019	1.7	2.0	1.0	1.5	1.0	3.0
A95-681003	1.5	1.0	1.0	1.5	1.0	2.0
A95-681005	1.7	2.0	2.0	1.5	1.0	2.0
A95-681006	1.4	1.0	1.0	1.7	1.0	2.0
A95-681026	1.6	1.0	1.0	1.7	1.0	2.0
A95-681031	1.5	1.0	1.0	1.4	1.0	3.0
A95-681032	1.5	1.0	1.0	1.9	1.0	2.0
A95-682002	1.7	1.0	1.0	1.8	1.0	3.0
A95-682003	1.4	1.0	1.0	1.4	1.0	2.0
A95-682026	1.7	1.0	2.0	1.9	1.0	3.0
C1930	1.7	1.0	2.0	1.7	1.5	2.0
C1931	1.1	1.0	1.0	1.5	1.0	---
C1932	1.5	1.0	2.0	2.0	1.0	2.0
C1933	1.4	1.0	1.0	1.5	1.0	2.0
C1934	1.6	1.0	1.0	1.8	1.0	2.0
C1935	1.8	2.0	2.0	1.8	1.0	2.0
C1940	1.3	1.0	1.0	1.5	1.0	2.0
C1941	1.7	1.0	2.0	2.4	1.0	2.0
C1942	1.6	1.0	1.0	1.8	1.0	2.0
HC92-689	1.5	1.0	1.0	1.8	1.5	2.0
HC92-1826	1.6	1.0	2.0	1.7	1.0	2.0
HF94-090	1.4	1.0	1.0	1.4	1.0	2.0
HF94-139	1.4	1.0	1.0	1.4	1.0	2.0
HF94-155	1.3	1.0	1.0	1.7	1.0	2.0
HF94-161	1.4	1.0	1.0	1.4	1.0	2.0
LG90-2550	1.4	1.0	1.0	1.4	1.0	2.0
ORC 9508	1.4	1.0	1.0	1.7	1.0	2.0
U95-3135	1.3	1.0	1.0	1.5	1.0	2.0
U95-3213	1.9	2.0	2.0	1.8	1.5	3.0
U95-3231	1.5	2.0	1.0	1.7	1.0	2.0
U95-3308	1.3	1.0	1.0	1.5	1.0	2.0
U95-3323	1.9	2.0	2.0	1.5	1.0	3.0
U95-3420	1.2	1.0	1.0	1.4	1.0	2.0
U95-3435	1.5	1.0	2.0	1.7	1.0	2.0
U95-3708	1.7	1.0	1.0	1.5	1.0	4.0
U95-3734	1.3	1.0	1.0	1.5	1.0	2.0
U95-3735	1.5	1.0	2.0	1.5	1.0	2.0

PRELIMINARY TEST IIIA, 1996

SEED QUALITY (score)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	1.0	2.0	1.0	1.0	1.8
Iroquois (III)	1.0	2.5	1.0	1.0	1.0
Macon (L)	1.0	2.5	1.0	1.0	1.3
A95-582019	2.0	3.0	1.0	1.0	1.5
A95-681003	2.0	2.5	1.5	1.0	1.5
A95-681005	3.0	2.0	1.0	1.0	1.2
A95-681006	1.0	3.0	1.0	1.0	1.5
A95-681026	2.0	3.0	1.5	1.0	1.3
A95-681031	1.0	2.5	1.5	1.0	1.5
A95-681032	2.0	2.5	1.0	1.0	2.0
A95-682002	2.0	3.0	1.0	1.0	2.0
A95-682003	2.0	2.5	1.0	1.0	1.5
A95-682026	2.0	2.5	1.0	1.0	1.5
C1930	2.0	2.5	2.0	1.0	1.3
C1931	1.0	2.0	1.0	1.0	1.0
C1932	2.0	2.0	1.0	1.0	1.3
C1933	2.0	2.0	1.0	1.0	1.5
C1934	3.0	2.0	1.5	1.0	1.8
C1935	2.0	2.0	2.0	1.0	2.0
C1940	1.0	2.5	1.0	1.0	1.3
C1941	2.0	2.5	1.0	1.0	2.0
C1942	2.0	2.5	2.5	1.0	1.0
HC92-689	1.0	2.5	1.5	1.0	2.0
HC92-1826	2.0	3.0	1.0	1.0	1.5
HF94-090	2.0	2.0	1.5	1.0	1.5
HF94-139	2.0	2.0	1.0	1.0	1.2
HF94-155	1.0	2.0	1.0	1.0	1.5
HF94-161	2.0	2.0	1.0	1.0	1.2
LG90-2550	2.0	2.5	1.0	1.0	1.5
ORC 9508	1.0	2.5	1.0	1.0	1.5
U95-3135	1.0	2.5	1.0	1.0	1.5
U95-3213	2.0	3.0	1.5	1.0	1.5
U95-3231	1.0	2.0	1.5	1.0	1.5
U95-3308	1.0	2.5	1.0	1.0	1.3
U95-3323	2.0	3.0	1.0	1.0	2.5
U95-3420	1.0	1.5	1.0	1.0	1.5
U95-3435	1.0	2.5	1.0	1.0	2.0
U95-3708	2.0	2.5	1.0	1.0	1.5
U95-3734	1.0	2.0	1.5	1.0	1.3
U95-3735	1.0	2.5	2.0	1.0	1.3

PRELIMINARY TEST IIIA, 1996

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	16.2	15.3	15.2	19.2	15.9	16.5
Iroquois (III)	15.6	15.0	15.2	17.2	16.3	16.3
Macon (L)	17.6	16.8	17.4	20.0	16.3	18.5
A95-582019	17.1	16.0	16.7	18.4	16.2	18.4
A95-681003	16.8	15.6	15.8	20.0	15.5	17.6
A95-681005	16.6	16.2	16.9	17.2	15.8	17.7
A95-681006	15.3	15.1	15.0	16.3	14.7	16.5
A95-681026	16.7	15.0	15.6	18.8	15.4	17.5
A95-681031	18.0	16.8	17.8	20.2	16.9	19.0
A95-681032	16.4	15.2	15.4	18.2	15.8	18.4
A95-682002	16.6	15.6	16.4	17.3	15.3	16.6
A95-682003	15.2	14.0	14.8	15.1	14.9	15.6
A95-682026	16.0	14.8	14.4	17.4	15.6	18.3
C1930	15.8	15.3	15.4	16.0	15.7	17.5
C1931	13.5	14.0	14.8	13.2	15.1	---
C1932	15.5	15.2	15.3	15.2	15.8	15.5
C1933	16.2	15.4	15.2	16.7	14.8	19.6
C1934	17.3	16.6	17.0	17.7	17.1	19.4
C1935	16.6	14.8	16.0	16.5	15.7	18.6
C1940	14.6	13.8	14.0	15.2	13.3	15.0
C1941	16.5	15.3	15.6	18.8	15.0	18.3
C1942	15.2	13.9	15.0	16.2	15.2	14.4
HC92-689	16.2	15.8	15.9	17.7	16.7	17.0
HC92-1826	16.4	15.6	16.2	14.8	16.4	16.8
HF94-090	17.1	15.8	16.9	18.1	17.5	19.1
HF94-139	17.0	16.4	16.9	17.5	17.2	17.6
HF94-155	15.0	14.0	14.2	15.5	13.5	16.7
HF94-161	16.6	16.2	17.4	17.2	16.7	17.7
LG90-2550	14.7	15.0	14.6	13.9	14.3	17.4
ORC 9508	16.3	16.8	16.2	15.8	16.6	17.6
U95-3135	15.4	14.8	13.6	16.4	15.6	17.6
U95-3213	16.8	16.1	16.8	16.1	16.4	20.4
U95-3231	16.5	15.6	16.4	17.3	16.0	18.5
U95-3308	15.0	14.1	14.8	14.9	14.8	16.8
U95-3323	18.5	17.4	17.5	20.9	16.6	22.7
U95-3420	18.3	17.6	18.0	19.1	17.7	19.8
U95-3435	17.2	16.3	17.3	16.5	18.2	18.8
U95-3708	15.5	15.6	15.2	14.7	14.5	17.5
U95-3734	16.0	14.6	15.2	16.5	14.8	18.5
U95-3735	15.0	15.2	15.4	14.5	14.5	16.3

PRELIMINARY TEST IIIA, 1996

SEED SIZE (g/100)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	15.2	16.6	15.9	17.3	15.1
Iroquois (III)	14.7	16.0	16.5	14.3	14.6
Macon (L)	14.4	18.7	19.2	16.4	18.1
A95-582019	15.8	18.5	18.7	15.2	17.1
A95-681003	14.0	18.0	18.1	17.1	16.0
A95-681005	16.0	18.2	17.7	13.7	16.6
A95-681006	14.5	15.8	16.3	13.8	14.9
A95-681026	15.3	18.4	18.8	15.2	16.8
A95-681031	16.8	19.3	19.5	15.3	18.6
A95-681032	15.9	15.9	17.3	15.4	16.6
A95-682002	14.2	18.7	18.0	16.9	17.0
A95-682003	13.9	16.9	17.6	14.6	14.9
A95-682026	15.0	17.6	17.2	14.1	15.4
C1930	12.5	17.3	18.7	13.0	16.6
C1931	13.4	16.5	16.9	16.0	14.7
C1932	14.3	17.3	17.0	13.5	15.5
C1933	14.5	17.3	17.8	14.5	15.8
C1934	16.2	18.0	19.4	13.7	17.8
C1935	14.8	18.2	19.3	15.3	16.6
C1940	12.7	15.7	16.4	15.1	14.3
C1941	16.4	18.2	18.2	12.7	16.0
C1942	13.8	17.1	16.5	15.0	14.4
HC92-689	14.1	17.5	17.3	14.5	15.9
HC92-1826	15.7	18.4	17.6	17.2	15.4
HF94-090	15.0	18.8	18.0	14.7	17.2
HF94-139	15.6	18.7	18.7	15.5	16.3
HF94-155	14.7	15.3	16.4	15.1	14.7
HF94-161	12.7	19.3	17.9	14.4	16.8
LG90-2550	14.6	14.7	15.1	12.4	14.8
ORC 9508	14.8	16.6	16.8	16.0	16.0
U95-3135	13.0	16.5	16.1	16.0	13.9
U95-3213	14.9	17.5	17.6	17.1	15.0
U95-3231	13.8	16.6	18.4	15.3	17.0
U95-3308	13.6	16.5	16.2	13.8	14.2
U95-3323	17.4	18.8	18.2	14.3	21.3
U95-3420	17.5	18.8	20.0	15.2	19.3
U95-3435	15.9	18.3	18.8	13.5	18.1
U95-3708	13.3	17.5	16.9	13.7	15.6
U95-3734	14.2	16.8	18.6	15.2	15.4
U95-3735	12.3	17.3	16.9	13.6	14.2

PRELIMINARY TEST IIIA, 1996

PROTEIN (%)

Strain	Mean 4 Tests	Fairfield IA	Urbana IL	Lafayette IN	York NB
IA2022 (II)	41.8	40.4	42.9	41.6	42.3
Iroquois (III)	41.6	40.5	41.9	40.7	43.1
Macon (L)	40.7	39.4	41.3	40.2	41.8
A95-582019	41.8	40.5	42.5	40.6	43.4
A95-681003	41.4	40.0	43.1	40.3	42.3
A95-681005	42.5	42.1	43.1	41.6	43.2
A95-681006	42.4	41.4	43.8	41.5	43.0
A95-681026	40.1	37.9	41.2	38.8	42.4
A95-681031	42.0	41.4	43.5	40.6	42.5
A95-681032	40.6	40.3	40.8	40.1	41.1
A95-682002	41.5	40.9	41.3	41.7	42.0
A95-682003	40.6	39.3	40.3	40.9	41.9
A95-682026	40.4	38.6	40.9	40.3	41.9
C1930	42.2	40.9	41.7	41.9	44.2
C1931	41.6	40.9	41.1	42.0	42.4
C1932	41.4	39.4	42.2	40.6	43.4
C1933	39.7	39.3	39.9	38.7	41.0
C1934	41.2	40.6	40.6	41.0	42.7
C1935	40.4	39.3	41.1	39.0	42.0
C1940	42.1	41.4	42.4	41.2	43.4
C1941	39.6	38.8	39.8	38.8	40.9
C1942	46.7	43.5	47.6	47.3	48.5
HC92-689	40.8	39.4	42.2	39.9	41.7
HC92-1826	41.1	40.8	41.2	40.5	42.0
HF94-090	41.6	40.4	42.5	41.0	42.6
HF94-139	42.6	41.9	43.9	41.7	42.8
HF94-155	40.8	40.5	41.1	40.1	41.5
HF94-161	42.0	40.7	42.5	41.3	43.3
LG90-2550	39.9	40.2	39.3	39.3	40.7
ORC 9508	41.8	40.9	40.7	41.1	44.3
U95-3135	39.3	38.0	40.2	38.4	40.7
U95-3213	40.6	39.2	40.4	40.6	42.1
U95-3231	41.5	40.7	42.0	40.7	42.4
U95-3308	39.5	38.0	38.0	40.4	41.6
U95-3323	42.0	41.2	42.5	41.3	42.9
U95-3420	39.7	38.3	39.5	39.7	41.3
U95-3435	40.2	39.0	40.5	39.6	41.5
U95-3708	43.6	42.2	43.2	43.5	45.6
U95-3734	41.5	39.8	42.0	41.0	43.0
U95-3735	41.9	41.3	42.3	41.5	42.4

PRELIMINARY TEST IIIA, 1996

OIL (%)

Strain	Mean 4 Tests	Fairfield IA	Urbana IL	Lafayette IN	York NB
IA2022 (II)	20.5	20.4	20.7	20.4	20.4
Iroquois (III)	20.7	19.5	21.7	20.7	20.9
Macon (L)	20.5	19.8	21.6	20.4	20.2
A95-582019	20.3	20.0	21.1	20.4	19.7
A95-681003	20.5	20.2	20.6	20.3	20.8
A95-681005	20.8	20.0	21.6	20.7	20.9
A95-681006	20.5	20.3	20.3	20.9	20.3
A95-681026	21.3	20.6	21.9	21.5	21.1
A95-681031	20.7	19.7	21.7	20.9	20.5
A95-681032	20.8	20.0	21.7	20.4	21.1
A95-682002	20.3	20.0	20.9	19.9	20.3
A95-682003	20.8	20.0	21.8	20.5	20.7
A95-682026	21.2	20.6	22.9	20.3	21.1
C1930	19.0	17.6	20.5	18.9	18.8
C1931	19.7	18.9	21.1	19.3	19.6
C1932	20.7	20.0	21.6	20.5	20.5
C1933	21.8	20.4	23.5	21.6	21.7
C1934	20.5	19.5	22.1	20.0	20.3
C1935	20.9	20.2	22.2	20.9	20.4
C1940	19.8	19.4	20.8	19.6	19.4
C1941	21.4	20.1	22.8	21.1	21.4
C1942	18.3	18.7	18.9	18.1	17.6
HC92-689	20.2	19.8	21.1	19.9	20.1
HC92-1826	20.1	19.2	21.2	20.0	20.0
HF94-090	20.9	20.2	21.5	21.2	20.5
HF94-139	20.5	19.9	22.0	20.3	19.9
HF94-155	20.5	19.7	21.9	20.3	20.2
HF94-161	20.9	20.0	22.0	21.1	20.3
LG90-2550	20.4	19.2	21.3	20.1	20.8
ORC 9508	20.2	19.4	21.8	20.0	19.6
U95-3135	21.2	20.1	22.4	21.0	21.2
U95-3213	20.7	19.7	22.2	20.5	20.4
U95-3231	20.6	19.8	21.5	20.7	20.5
U95-3308	21.5	20.9	23.2	21.1	20.9
U95-3323	20.4	19.3	21.9	20.2	20.2
U95-3420	21.8	20.6	23.2	21.2	22.0
U95-3435	21.3	20.4	22.7	20.8	21.2
U95-3708	19.7	19.3	21.1	19.2	19.3
U95-3734	21.0	20.8	21.8	20.8	20.6
U95-3735	20.1	19.6	20.5	20.2	20.1

PRELIMINARY TEST IIIB, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2022 (II)	Asgrow A3205 x Dairyland DSR 304	F5	
2.	Iroquois (III)	LN81-1029 x Asgrow A2943	F5	Rps?
3.	Macon (L)	Sherman x Resnik	F5	
4.	HS93-3779	GR8936 x Edison	F5	Rps1-k
5.	K1345	K1161 x Edison	F5	
6.	K1346	Flyer x K89-67	F5	
7.	K1347	Corsica x Edison	F5	
8.	K1348	K1161 x Edison	F5	
9.	K1349	Corsica x Edison	F5	
10.	K1350	S85-1136 x K1163	F5	
11.	K1351	K1161 x Edison	F5	
12.	LN92-11498	Linford x Resnik	F5	
13.	LN93-4468	LN84-15336 x HC84-553-1	F5	
14.	LN93-5197	LN84-15336 x A86-301024	F5	
15.	LN93-5265	LN84-15336 x A86-301024	F5	
16.	LN93-5299	LN84-15336 x A86-301024	F5	
17.	LN93-6553	L84-6189 x Bass	F5	
18.	LN93-7027	L84-6189 x Bass	F5	
19.	LN93-11586	A86-301024 x Asgrow A3733	F5	
20.	LN93-11632	A86-301024 x Asgrow A3733	F5	
21.	LN93-11945	LN84-7577 x Asgrow A3733	F5	
22.	SS91-4587	Dairyland DSR 252 x Pioneer P1999-19	F5	
23.	SS91-6655	Pioneer P9391 x Asgrow A3935	F5	
24.	SS92-1698	Asgrow A3733 x (Pioneer P9391 x Asgrow A3415)	F5	
25.	SS92-2060	Pioneer P9461 x Northrup King S31-33	F5	
26.	SS92-6010	Pioneer P9341 x Asgrow A4009	F5	
27.	SS92-6997	Pioneer P9391 x Asgrow A3935	F5	
28.	SS92-7243	Pioneer P9411 x Asgrow A3935	F5	
29.	SS92-9047	C1747 x A86-303014	F5	
30.	SS93-4165	K1145 x Edison	F5	
31.	SS93-4184	K1145 x Edison	F5	
32.	Charleston (dt1)	HC74-634RE x HC78-676	F5	
33.	HC92-89PR	HC78-350(6) x PI 86.050	BC5 F3	dt1 Rps4
34.	HC92-145	Sprite 87 x HC76-3840 BC	F5	dt1
35.	HC92-165PR	HC83-4532(6) x Sprite 87	BC5 F3	dt1 Rps1-k
36.	HC92-168PR	HC83-4532(6) x Sprite 87	BC5 F3	dt1 Rps1-k
37.	HC92-743	HC89-913 x HC78-676BC	F5	dt1
38.	HC92-984	HC84-2556 x HC78-676 BC	F5	dt1
39.	HC94-62PR	Charleston(6) x Hobbit 87	BC5 F3	dt1 Rps1-k
40.	HC94-69PR	Charleston(6) x Hobbit 87	BC5 F3	dt1 Rps1-k

PRELIMINARY TEST IIIB, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan
IA2022 (II)	PGBSYIbI	4.4	1
Iroquois (III)	PGBDYIbI	4.2	1
Macon (L)	WTBDYBlI	4.1	1
HS93-3779	WTTDYIbI	3.6	1
K1345	PTTDYBlI	3.6	1
K1346	PGTDYBfI	3.2	1
K1347	PTTDYBrI	3.9	1
K1348	PTTDYBlI	3.6	1
K1349	PTTDYBlI	3.2	1
K1350	PTTDYBlI	2.8	1
K1351	PTTDYBlI	4.0	1
LN92-11498	WTTSYBlI	3.6	1
LN93-4468	PTTDYBlI	3.9	1
LN93-5197	WTBDYBlI	3.8	1
LN93-5265	PGBDYIbI	3.5	1
LN93-5299	WTBDYBlI	3.9	1
LN93-6553	PTTDYBlI	3.6	1
LN93-7027	WTTDYBlI	3.9	1
LN93-11586	PGBSYIbI	2.8	1
LN93-11632	PGBSYIbI	2.6	1
LN93-11945	PGBSYIbI	2.8	1
SS91-4587	P+WTBDYBlI	3.0	1
SS91-6655	PTTDYBlI	3.5	1
SS92-1698	PTTDYBlI	2.9	1
SS92-2060	WTTSYBlI	4.0	1
SS92-6010	PTTDYBlI	3.6	1
SS92-6997	PTBDYBlI	3.5	1
SS92-7243	P+WTBDYBlI	3.5	1
SS92-9047	WTTIYBlI	3.6	1
SS93-4165	PGTDYBfI	3.8	1
SS93-4184	PGTDYBfI	4.2	1
Charleston (dtl)	PTTSYBlD	3.2	1
HC92-89PR	PTTDYBlD	2.6	1
HC92-145	WTTIYBlD	3.2	1
HC92-165PR	WTTSYBlD	3.5	1
HC92-168PR	WTTSYBlD	3.5	1
HC92-743	PTBSYBrD	3.4	1
HC92-984	PTBSYBlD	3.2	1
HC94-62PR	PTTSYBlD	3.1	1
HC94-69PR	PTTSYBlD	3.8	1

PRELIMINARY TEST IIIB, 1996

DISEASE DATA

Strain	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	PSB n %
IA2022 (II)	S	10	56	4
Iroquois (III)	S	0	48	2
Macon (L)	R	0	78	10
HS93-3779	R	0	30	0
K1345	S	0	46	0
K1346	S	0	40	0
K1347	H	0	14	0
K1348	R	0	18	2
K1349	R	0	32	4
K1350	H	0	58	0
K1351	R	0	34	0
LN92-11498	R	0	20	0
LN93-4468	R	0	22	2
LN93-5197	R	0	0	0
LN93-5265	S	0	16	0
LN93-5299	S	0	42	0
LN93-6553	S	0	44	0
LN93-7027	R	0	44	0
LN93-11586	R	0	18	2
LN93-11632	R	0	68	0
LN93-11945	R	0	50	0
SS91-4587	R	0	68	4
SS91-6655	R	0	54	2
SS92-1698	R	0	42	0
SS92-2060	R	0	54	0
SS92-6010	H	0	50	0
SS92-6997	S	0	60	0
SS92-7243	S	0	42	0
SS92-9047	R	0	68	0
SS93-4165	R	0	20	0
SS93-4184	R	0	4	0
Charleston (dt1)	S	0	4	0
HC92-89PR	R	0	4	0
HC92-145	R	0	8	0
HC92-165PR	R	0	0	0
HC92-168PR	H	0	16	0
HC92-743	R	0	38	2
HC92-984	R	46	16	0
HC94-62PR	R	2	18	0
HC94-69PR	R	0	6	0

PRELIMINARY TEST IIIB, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
IA2022 (II)	55.8	15	-0.7	1.3	35	1.4	15.6	42.0	20.5
Iroquois (III)	56.2	10	09/26	1.3	34	1.4	15.8	41.6	20.5
Macon (L)	55.3	20	4.4	1.2	32	1.4	17.0	41.0	20.4
HS93-3779	56.8	7	1.8	1.3	33	1.2	16.0	40.9	20.6
K1345	56.0	12	4.2	1.2	35	1.4	14.6	41.7	20.0
K1346	50.8	39	4.0	1.7	36	1.5	14.7	42.0	19.8
K1347	55.9	13	7.9	1.5	35	1.7	16.7	41.6	18.8
K1348	55.4	19	6.6	1.5	36	1.5	15.3	41.6	19.9
K1349	54.3	27	5.8	1.4	34	1.2	15.8	41.7	19.5
K1350	55.5	17	6.8	1.3	36	1.3	17.1	41.2	19.8
K1351	57.3	5	5.0	1.5	35	1.5	14.4	42.0	20.0
LN92-11498	55.5	17	3.2	1.3	35	1.3	15.5	41.9	20.2
LN93-4468	51.4	37	0.9	1.1	32	1.2	15.4	41.5	20.8
LN93-5197	54.7	25	1.6	1.3	35	1.5	16.0	41.4	20.0
LN93-5265	58.4	2	3.4	1.4	37	1.3	16.0	42.6	19.7
LN93-5299	55.7	16	1.4	1.1	33	1.4	17.0	41.4	19.7
LN93-6553	53.5	31	3.0	1.8	37	1.4	15.3	41.4	20.8
LN93-7027	56.2	10	2.1	1.3	33	1.2	15.2	42.4	19.9
LN93-11586	56.9	6	2.1	1.4	35	1.5	16.5	43.6	19.9
LN93-11632	59.5	1	5.8	1.5	37	1.6	17.2	41.0	19.6
LN93-11945	57.9	3	6.8	1.4	35	1.6	18.5	43.0	20.0
SS91-4587	55.1	22	6.4	2.4	36	1.8	16.9	42.5	19.6
SS91-6655	55.9	13	7.8	2.4	38	1.6	14.6	41.0	20.1
SS92-1698	54.8	24	9.1	1.5	36	1.8	14.7	41.8	20.0
SS92-2060	55.0	23	9.0	1.4	33	1.8	13.9	41.5	20.1
SS92-6010	54.6	26	6.6	1.8	38	1.4	15.3	41.2	19.9
SS92-6997	55.3	20	6.2	1.6	36	1.5	15.7	41.0	20.1
SS92-7243	54.1	29	6.9	1.6	36	1.7	16.1	41.9	20.4
SS92-9047	57.6	4	6.2	1.2	36	1.3	16.9	41.6	20.2
SS93-4165	51.3	38	9.3	1.5	37	2.0	15.3	42.5	18.7
SS93-4184	54.1	29	9.2	1.7	37	1.8	13.6	42.0	19.7
Charleston (dt1)	56.7	9	4.9	1.9	28	1.4	15.0	41.6	19.7
HC92-89PR	53.3	32	6.2	1.3	24	1.6	16.9	42.7	20.3
HC92-145	49.1	40	2.0	1.4	25	1.2	14.6	41.6	20.4
HC92-165PR	53.3	32	2.1	1.3	24	1.5	17.1	41.5	20.7
HC92-168PR	53.1	35	2.4	1.4	24	1.5	17.5	42.0	20.7
HC92-743	51.9	36	3.8	1.6	27	1.8	14.2	40.9	20.7
HC92-984	56.8	7	4.9	1.3	26	1.2	15.8	42.7	19.6
HC94-62PR	54.2	28	4.4	1.6	26	1.4	15.0	42.2	19.7
HC94-69PR	53.2	34	4.8	1.5	26	1.4	14.1	41.2	20.0

119.6 Days After Planting

PRELIMINARY TEST IIIB, 1996

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	55.8	43.5	52.2	47.9	55.0	57.4
Iroquois (III)	56.2	51.6	52.6	42.8	58.1	59.9
Macon (L)	55.3	54.1	48.0	46.8	56.0	63.2
HS93-3779	56.8	50.2	52.4	44.4	58.4	63.2
K1345	56.0	49.7	49.9	44.1	52.5	66.9
K1346	50.8	44.6	44.1	36.9	50.4	66.3
K1347	55.9	52.8	49.5	48.6	60.2	64.6
K1348	55.4	49.3	45.8	44.8	54.6	62.6
K1349	54.3	49.3	50.9	49.0	58.3	68.4
K1350	55.5	53.6	48.0	44.1	50.3	70.8
K1351	57.3	49.3	51.0	45.4	55.8	68.9
LN92-11498	55.5	50.2	47.5	54.0	49.2	66.8
LN93-4468	51.4	48.7	46.3	42.5	51.3	60.9
LN93-5197	54.7	50.6	50.2	45.8	54.5	60.4
LN93-5265	58.4	53.9	52.9	49.6	60.2	66.3
LN93-5299	55.7	52.4	47.3	49.8	49.6	55.9
LN93-6553	53.5	47.6	49.4	40.4	50.9	63.4
LN93-7027	56.2	51.6	49.8	48.5	56.6	62.6
LN93-11586	56.9	50.9	53.0	36.6	59.7	65.5
LN93-11632	59.5	52.0	56.1	50.1	63.3	67.4
LN93-11945	57.9	52.2	51.5	42.2	64.8	65.7
SS91-4587	55.1	49.1	45.7	42.6	50.8	62.5
SS91-6655	55.9	49.3	44.9	54.4	58.1	64.6
SS92-1698	54.8	51.2	49.0	51.2	60.8	61.9
SS92-2060	55.0	49.2	46.9	49.4	58.1	62.7
SS92-6010	54.6	44.6	46.5	49.6	51.5	67.1
SS92-6997	55.3	49.3	50.3	47.1	62.0	64.5
SS92-7243	54.1	46.3	50.8	52.4	57.2	63.6
SS92-9047	57.6	54.9	52.6	41.5	65.1	61.0
SS93-4165	51.3	48.2	42.0	48.1	46.5	64.8
SS93-4184	54.1	49.8	46.2	48.0	55.7	65.0
Charleston (dt1)	56.7	53.2	48.6	45.4	59.3	61.8
HC92-89PR	53.3	49.0	48.9	47.1	65.0	52.4
HC92-145	49.1	42.0	43.3	42.3	55.1	49.7
HC92-165PR	53.3	47.9	52.9	41.1	57.0	56.0
HC92-168PR	53.1	47.4	52.0	47.0	58.7	47.6
HC92-743	51.9	46.8	44.6	47.6	54.3	55.5
HC92-984	56.8	51.8	51.3	47.9	59.7	55.2
HC94-62PR	54.2	48.7	46.0	45.0	59.8	61.3
HC94-69PR	53.2	51.1	47.1	40.1	58.4	55.4
C.V. (%)		4.5	5.2	9.8	7.0	3.8
L.S.D. (5%)		4.5	5.1	9.2	8.1	4.0
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 1996

YIELD (bu/a)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	62.1	61.6	63.1	44.4	70.5
Iroquois (III)	69.1	60.9	58.5	40.6	67.8
Macon (L)	50.2	68.1	58.3	41.0	67.7
HS93-3779	53.2	67.2	64.0	47.6	67.1
K1345	63.0	61.2	56.7	45.3	70.8
K1346	52.6	53.1	52.8	44.2	63.0
K1347	58.3	60.3	53.4	46.3	65.4
K1348	59.1	63.1	58.4	48.5	67.4
K1349	55.5	59.9	61.5	20.5	69.8
K1350	56.1	57.1	55.2	46.4	73.8
K1351	59.1	65.2	64.8	44.9	68.1
LN92-11498	54.9	61.6	57.6	47.8	65.2
LN93-4468	51.7	56.8	53.5	43.4	59.3
LN93-5197	50.6	61.9	62.6	45.6	64.3
LN93-5265	51.3	62.1	67.6	45.8	74.3
LN93-5299	62.5	62.8	63.8	41.6	71.6
LN93-6553	49.0	59.6	61.8	47.9	64.6
LN93-7027	52.1	61.6	68.8	45.8	64.4
LN93-11586	64.2	65.7	59.6	48.4	65.8
LN93-11632	62.1	67.7	55.9	42.3	78.4
LN93-11945	58.7	64.4	61.4	44.7	73.4
SS91-4587	58.9	62.5	59.5	48.0	71.2
SS91-6655	61.4	60.8	54.3	40.2	70.5
SS92-1698	53.9	56.5	55.6	38.0	69.5
SS92-2060	57.5	56.8	52.5	45.9	70.8
SS92-6010	58.4	60.8	56.0	44.7	67.0
SS92-6997	54.3	57.1	56.9	39.5	72.2
SS92-7243	56.5	60.9	58.8	22.1	72.0
SS92-9047	63.6	62.5	65.4	41.2	68.2
SS93-4165	54.4	52.0	47.4	42.5	67.4
SS93-4184	48.7	55.7	56.3	48.4	67.2
Charleston (dt1)	60.1	63.1	60.3	45.2	70.4
HC92-89PR	42.4	58.3	57.6	45.9	66.7
HC92-145	44.6	57.3	52.4	44.6	59.9
HC92-165PR	41.7	69.3	52.5	45.8	69.1
HC92-168PR	48.8	64.4	58.9	44.9	61.7
HC92-743	51.6	50.8	53.8	46.0	68.4
HC92-984	58.8	62.9	63.8	48.7	68.2
HC94-62PR	56.6	59.1	56.5	43.4	65.4
HC94-69PR	47.8	56.4	62.2	42.1	71.5
C.V. (%)	7.8	9.6	4.8	16.0	4.8
L.S.D. (5%)	8.7	16.6	8.0	9.1	6.7
Row Sp. (In.)	30	30	30	30	7.5
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	3

PRELIMINARY TEST IIIB, 1996

YIELD RANK

Strain	Yield Rank	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	15	39	8	15	27	32
Iroquois (III)	10	11	5	30	17	31
Macon (L)	20	2	24	21	23	19
HS93-3779	7	17	7	27	14	19
K1345	12	20	17	28	31	6
K1346	39	37	38	39	36	8
K1347	13	6	19	11	7	14
K1348	19	21	34	26	28	22
K1349	27	21	13	10	16	3
K1350	17	4	24	28	37	1
K1351	5	21	12	23	24	2
LN92-11498	17	17	26	2	39	7
LN93-4468	37	29	31	32	33	29
LN93-5197	25	16	16	22	29	30
LN93-5265	2	3	3	8	7	8
LN93-5299	16	7	27	6	38	34
LN93-6553	31	33	20	37	34	18
LN93-7027	10	11	18	12	22	22
LN93-11586	6	15	2	40	10	11
LN93-11632	1	9	1	5	4	4
LN93-11945	3	8	10	34	3	10
SS91-4587	22	27	35	31	35	24
SS91-6655	13	21	36	1	17	14
SS92-1698	24	13	21	4	6	25
SS92-2060	23	26	29	9	17	21
SS92-6010	26	37	30	8	32	5
SS92-6997	20	21	15	18	5	16
SS92-7243	29	36	14	3	20	17
SS92-9047	4	1	5	35	1	28
SS93-4165	38	31	40	13	40	13
SS93-4184	29	19	32	14	25	12
Charleston (dt1)	9	5	23	23	12	26
HC92-89PR	32	28	22	18	2	38
HC92-145	40	40	39	33	26	39
HC92-165PR	32	32	3	36	21	33
HC92-168PR	35	34	9	20	13	40
HC92-743	36	35	37	17	30	35
HC92-984	7	10	11	15	10	37
HC94-62PR	28	29	33	25	9	27
HC94-69PR	34	14	28	38	14	36

PRELIMINARY TEST IIIB, 1996

YIELD RANK

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	6	17	8	25	12
Iroquois (III)	1	22	19	35	22
Macon (L)	33	2	21	34	23
HS93-3779	26	4	5	8	27
K1345	4	20	25	18	10
K1346	27	38	36	26	37
K1347	16	25	35	10	31
K1348	10	9	20	2	24
K1349	21	26	12	40	15
K1350	20	31	31	9	3
K1351	10	6	4	20	21
LN92-11498	22	19	22	7	33
LN93-4468	29	33	34	28	40
LN93-5197	32	16	9	17	36
LN93-5265	31	15	2	14	2
LN93-5299	5	12	6	32	7
LN93-6553	34	27	11	6	34
LN93-7027	28	17	1	14	35
LN93-11586	2	5	15	4	30
LN93-11632	6	3	29	30	1
LN93-11945	14	8	13	22	4
SS91-4587	12	13	16	5	9
SS91-6655	8	24	32	36	12
SS92-1698	25	35	30	38	16
SS92-2060	17	33	37	12	10
SS92-6010	15	23	28	22	28
SS92-6997	24	32	24	37	5
SS92-7243	19	21	18	39	6
SS92-9047	3	14	3	33	19
SS93-4165	23	39	40	29	24
SS93-4184	36	37	27	3	26
Charleston (dtl)	9	10	14	19	14
HC92-89PR	39	29	22	12	29
HC92-145	38	30	39	24	39
HC92-165PR	40	1	38	14	17
HC92-168PR	35	7	17	20	38
HC92-743	30	40	33	11	18
HC92-984	13	11	7	1	19
HC94-62PR	18	28	26	27	31
HC94-69PR	37	36	10	31	8

PRELIMINARY TEST IIIB, 1996

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	-0.7		0	-1	-1	-2
Iroquois (III)	09/26		10/02	09/24	10/03	09/18
Macon (L)	4.4		7	2	3	9
HS93-3779	1.8		3	-1	2	3
K1345	4.2		6	1	6	8
K1346	4.0		6	1	2	10
K1347	7.9		10	5	9	14
K1348	6.6		9	3	9	10
K1349	5.8		8	0	8	11
K1350	6.8		10	3	9	12
K1351	5.0		7	2	7	7
LN92-11498	3.2		4	1	2	7
LN93-4468	0.9		2	0	0	3
LN93-5197	1.6		3	0	1	4
LN93-5265	3.4		4	2	4	6
LN93-5299	1.4		2	0	0	3
LN93-6553	3.0		5	0	4	4
LN93-7027	2.1		4	0	4	3
LN93-11586	2.1		4	-2	4	4
LN93-11632	5.8		6	2	9	10
LN93-11945	6.8		6	2	6	12
SS91-4587	6.4		10	0	10	12
SS91-6655	7.8		11	3	10	12
SS92-1698	9.1		12	6	10	14
SS92-2060	9.0		12	5	10	14
SS92-6010	6.6		10	2	9	11
SS92-6997	6.2		8	1	9	11
SS92-7243	6.9		8	2	10	12
SS92-9047	6.2		6	1	10	9
SS93-4165	9.3		14	6	12	15
SS93-4184	9.2		14	6	13	17
Charleston (dt1)	4.9		8	1	6	12
HC92-89PR	6.2		9	3	10	11
HC92-145	2.0		4	0	2	6
HC92-165PR	2.1		4	0	2	9
HC92-168PR	2.4		5	0	3	7
HC92-743	3.8		6	2	4	7
HC92-984	4.9		7	2	5	7
HC94-62PR	4.4		6	2	5	10
HC94-69PR	4.8		8	2	6	10
Date Planted	05/29		06/15	05/22	06/16	05/21
Days to Mature	119.6		109	125	109	120

PRELIMINARY TEST IIIB, 1996

MATURITY (date)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	-2	0	2	-1	-1
Iroquois (III)	09/14	10/01	09/24	10/06	09/24
Macon (L)	7	2	6	-1	5
HS93-3779	0	4	4	0	1
K1345	2	3	5	-1	8
K1346	0	5	6	0	6
K1347	9	9	7	-1	9
K1348	8	6	7	-1	8
K1349	2	7	6	2	8
K1350	5	7	6	-1	10
K1351	6	4	5	-1	8
LN92-11498	1	4	6	-1	5
LN93-4468	0	0	3	-1	1
LN93-5197	-1	1	6	0	0
LN93-5265	0	6	5	-1	5
LN93-5299	0	0	3	2	3
LN93-6553	0	4	6	0	4
LN93-7027	0	2	5	-1	2
LN93-11586	1	3	4	-1	2
LN93-11632	5	6	7	-1	8
LN93-11945	11	8	8	0	8
SS91-4587	5	8	6	-1	8
SS91-6655	8	8	8	-1	11
SS92-1698	11	9	8	1	11
SS92-2060	11	10	8	0	11
SS92-6010	5	6	8	-1	9
SS92-6997	4	7	8	-1	9
SS92-7243	6	8	8	-1	9
SS92-9047	5	7	8	1	9
SS93-4165	12	5	8	-1	13
SS93-4184	7	9	9	-4	12
Charleston (dtl)	1	5	5	1	5
HC92-89PR	2	7	7	-1	8
HC92-145	-2	1	5	1	1
HC92-165PR	-1	2	5	-6	4
HC92-168PR	-1	4	4	-1	1
HC92-743	1	4	4	1	5
HC92-984	5	6	7	0	5
HC94-62PR	1	6	7	-1	4
HC94-69PR	1	5	5	-1	7
Date Planted	05/20	06/04	05/20	06/05	05/20
Days to Mature	117	119	127	123	127

PRELIMINARY TEST IIIB, 1996

LODGING (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	1.3	1.4	1.2	1.1	1.3	1.0
Iroquois (III)	1.3	1.7	1.1	1.0	1.0	1.0
Macon (L)	1.2	1.4	1.3	1.0	1.0	1.0
HS93-3779	1.3	1.3	1.0	1.0	1.0	1.0
K1345	1.2	1.6	1.0	1.0	1.0	1.0
K1346	1.7	1.5	1.2	1.0	2.0	2.0
K1347	1.5	1.6	1.1	1.0	1.3	2.0
K1348	1.5	1.8	1.2	1.0	1.8	1.0
K1349	1.4	1.9	1.2	1.0	1.0	1.0
K1350	1.3	1.6	1.1	1.0	1.8	1.0
K1351	1.5	1.5	1.2	1.0	2.3	1.0
LN92-11498	1.3	1.4	1.0	1.0	1.0	1.0
LN93-4468	1.1	1.1	1.0	1.0	1.0	1.0
LN93-5197	1.3	1.2	1.0	1.0	1.0	1.0
LN93-5265	1.4	1.5	1.2	1.0	1.0	1.5
LN93-5299	1.1	1.1	1.0	1.0	1.0	1.0
LN93-6553	1.8	1.5	1.4	1.0	2.8	2.0
LN93-7027	1.3	1.5	1.0	1.0	1.0	1.0
LN93-11586	1.4	1.7	1.0	1.0	1.0	1.0
LN93-11632	1.5	1.8	1.1	1.0	1.0	1.0
LN93-11945	1.4	1.7	1.0	1.0	1.0	1.0
SS91-4587	2.4	2.5	2.0	1.0	4.0	2.0
SS91-6655	2.4	2.0	1.9	1.0	3.0	2.5
SS92-1698	1.5	1.7	1.0	1.0	1.0	1.0
SS92-2060	1.4	1.7	1.2	1.0	1.5	1.0
SS92-6010	1.8	1.8	1.4	1.0	3.3	1.0
SS92-6997	1.6	1.7	1.4	1.0	1.5	1.5
SS92-7243	1.6	1.6	1.3	1.0	1.8	1.0
SS92-9047	1.2	1.4	1.0	1.0	1.0	1.0
SS93-4165	1.5	1.9	1.3	1.0	1.5	1.0
SS93-4184	1.7	1.5	1.2	1.0	1.5	2.0
Charleston (dtl)	1.9	1.5	3.0	1.0	1.0	1.5
HC92-89PR	1.3	1.3	1.2	1.0	1.0	1.0
HC92-145	1.4	1.2	1.4	1.0	1.0	1.0
HC92-165PR	1.3	1.4	1.5	1.0	1.0	1.0
HC92-168PR	1.4	1.2	1.7	1.0	1.0	1.5
HC92-743	1.6	1.5	1.8	1.0	1.5	1.5
HC92-984	1.3	1.3	2.0	1.0	1.0	1.0
HC94-62PR	1.6	1.4	3.0	1.0	1.0	1.0
HC94-69PR	1.5	1.5	1.5	1.0	1.0	1.0

PRELIMINARY TEST IIIB, 1996

LODGING (score)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	1.5	2.0	1.0	1.5	1.3
Iroquois (III)	1.5	2.0	1.0	1.4	1.3
Macon (L)	1.0	2.0	1.0	1.5	1.0
HS93-3779	1.0	1.5	1.5	2.3	1.0
K1345	1.0	1.5	1.0	1.4	1.0
K1346	1.5	2.5	1.5	1.8	1.5
K1347	1.5	2.5	1.5	1.4	1.0
K1348	1.0	2.5	1.5	1.9	1.3
K1349	1.0	2.5	1.0	1.7	1.3
K1350	1.0	2.0	1.0	1.8	1.3
K1351	1.5	2.0	1.0	1.8	1.3
LN92-11498	1.0	2.0	1.0	1.9	1.3
LN93-4468	1.0	1.5	1.0	1.7	1.0
LN93-5197	1.0	2.0	1.0	2.4	1.0
LN93-5265	1.0	2.5	1.0	1.8	1.0
LN93-5299	1.0	1.0	1.0	1.7	1.0
LN93-6553	1.0	3.0	1.0	2.5	1.5
LN93-7027	2.0	2.0	1.0	1.6	1.0
LN93-11586	1.5	2.0	1.0	2.5	1.0
LN93-11632	2.0	2.0	2.0	2.0	1.3
LN93-11945	1.0	2.0	1.0	2.5	1.5
SS91-4587	3.0	3.0	2.5	1.7	2.5
SS91-6655	3.5	3.0	2.5	1.8	2.3
SS92-1698	1.5	2.5	2.0	1.9	1.0
SS92-2060	1.0	2.0	2.0	1.8	1.0
SS92-6010	2.5	2.5	1.5	1.8	1.5
SS92-6997	1.5	2.5	1.5	2.1	1.3
SS92-7243	2.0	3.0	1.5	1.8	1.0
SS92-9047	1.0	1.5	1.0	1.8	1.0
SS93-4165	1.0	2.0	2.5	1.5	1.0
SS93-4184	1.0	2.5	2.0	2.9	1.3
Charleston (dt1)	2.0	3.0	1.0	3.1	2.0
HC92-89PR	1.0	2.5	1.0	1.6	1.0
HC92-145	1.0	2.5	1.0	2.8	1.0
HC92-165PR	1.0	2.0	1.0	1.8	1.3
HC92-168PR	1.0	2.5	1.0	1.8	1.3
HC92-743	1.0	3.0	1.0	2.1	1.8
HC92-984	1.0	2.0	1.0	1.7	1.0
HC94-62PR	1.0	3.0	1.0	1.6	1.5
HC94-69PR	1.0	3.0	1.0	1.9	2.0

PRELIMINARY TEST IIIB, 1996

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	35	36	36	35	36	42
Iroquois (III)	34	38	36	30	37	39
Macon (L)	32	34	30	30	31	39
HS93-3779	33	34	35	31	33	41
K1345	35	34	38	33	35	41
K1346	36	37	36	33	34	42
K1347	35	36	36	35	39	39
K1348	36	38	36	34	34	44
K1349	34	34	36	36	35	41
K1350	36	37	38	32	37	41
K1351	35	36	37	32	34	42
LN92-11498	35	38	36	32	33	43
LN93-4468	32	35	32	31	31	40
LN93-5197	35	34	34	32	35	44
LN93-5265	37	38	38	37	36	43
LN93-5299	33	35	34	34	33	41
LN93-6553	37	37	39	35	40	43
LN93-7027	33	34	33	34	33	40
LN93-11586	35	36	36	31	37	39
LN93-11632	37	36	38	35	36	46
LN93-11945	35	36	34	33	35	47
SS91-4587	36	37	38	33	36	41
SS91-6655	38	39	39	37	41	43
SS92-1698	36	36	36	34	35	42
SS92-2060	33	34	36	32	34	42
SS92-6010	38	38	38	37	38	44
SS92-6997	36	36	36	35	37	40
SS92-7243	36	34	38	35	38	40
SS92-9047	36	36	38	33	36	42
SS93-4165	37	36	38	33	38	49
SS93-4184	37	37	38	35	37	47
Charleston (dtl)	28	24	28	29	27	33
HC92-89PR	24	24	28	25	26	33
HC92-145	25	25	28	25	25	27
HC92-165PR	24	24	28	24	24	25
HC92-168PR	24	24	28	25	24	25
HC92-743	27	25	28	27	28	33
HC92-984	26	24	28	27	29	29
HC94-62PR	26	24	30	27	28	27
HC94-69PR	26	26	28	26	28	29

PRELIMINARY TEST IIIB, 1996

PLANT HEIGHT (inches)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	26	37	38	32	35
Iroquois (III)	30	36	36	27	32
Macon (L)	28	35	37	29	31
HS93-3779	28	34	32	31	31
K1345	33	35	35	29	33
K1346	34	39	37	28	36
K1347	30	36	32	33	37
K1348	33	36	39	31	33
K1349	31	33	33	32	32
K1350	31	40	38	26	36
K1351	33	38	37	32	33
LN92-11498	32	36	36	30	35
LN93-4468	27	33	33	30	30
LN93-5197	28	37	36	36	31
LN93-5265	33	39	39	31	34
LN93-5299	29	36	34	26	31
LN93-6553	31	41	41	31	34
LN93-7027	29	34	33	31	32
LN93-11586	30	34	38	28	36
LN93-11632	32	39	39	30	34
LN93-11945	29	36	37	33	34
SS91-4587	34	37	36	30	33
SS91-6655	38	40	36	27	41
SS92-1698	34	38	37	32	36
SS92-2060	29	38	33	19	33
SS92-6010	38	41	37	32	35
SS92-6997	34	38	36	36	35
SS92-7243	33	36	36	32	33
SS92-9047	33	36	39	35	33
SS93-4165	35	38	33	31	38
SS93-4184	31	41	37	31	33
Charleston (dt1)	18	28	26	38	26
HC92-89PR	14	24	21	28	21
HC92-145	17	24	24	31	23
HC92-165PR	17	26	21	29	23
HC92-168PR	15	26	22	29	24
HC92-743	16	28	27	29	25
HC92-984	16	26	25	28	23
HC94-62PR	18	28	25	31	25
HC94-69PR	15	26	26	35	25

PRELIMINARY TEST IIIB, 1996

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	1.4	2.0	1.0	1.4	1.0	3.0
Iroquois (III)	1.4	1.0	1.0	1.8	1.0	3.0
Macon (L)	1.4	1.0	1.0	1.5	1.0	3.0
HS93-3779	1.2	1.0	1.0	1.4	1.0	2.0
K1345	1.4	1.0	2.0	1.4	1.0	2.0
K1346	1.5	2.0	1.0	1.5	1.0	2.0
K1347	1.7	2.0	2.0	1.5	1.0	2.0
K1348	1.5	1.0	2.0	1.9	1.0	2.0
K1349	1.2	1.0	1.0	1.5	1.0	2.0
K1350	1.3	1.0	1.0	1.5	1.0	2.0
K1351	1.5	1.0	2.0	1.5	1.0	2.0
LN92-11498	1.3	1.0	1.0	1.5	1.0	2.0
LN93-4468	1.2	1.0	1.0	1.2	1.0	2.0
LN93-5197	1.5	1.0	2.0	1.4	1.0	3.0
LN93-5265	1.3	1.0	1.0	1.4	1.0	3.0
LN93-5299	1.4	1.0	2.0	1.4	1.0	3.0
LN93-6553	1.4	1.0	1.0	1.4	1.0	2.0
LN93-7027	1.2	1.0	1.0	1.4	1.0	2.0
LN93-11586	1.5	1.0	2.0	1.4	1.0	3.0
LN93-11632	1.6	1.0	1.0	1.5	1.0	3.0
LN93-11945	1.6	1.0	1.0	1.8	1.0	3.0
SS91-4587	1.8	2.0	3.0	1.2	1.0	2.0
SS91-6655	1.6	1.0	1.0	1.7	1.0	2.0
SS92-1698	1.8	1.0	1.0	1.6	1.0	2.0
SS92-2060	1.8	1.0	2.0	1.2	1.0	2.0
SS92-6010	1.4	1.0	1.0	1.5	1.0	2.0
SS92-6997	1.5	1.0	2.0	1.4	1.0	2.0
SS92-7243	1.7	2.0	2.0	1.7	1.0	2.0
SS92-9047	1.3	1.0	1.0	1.4	1.0	2.0
SS93-4165	2.0	2.0	2.0	1.5	1.5	3.0
SS93-4184	1.8	1.0	3.0	2.0	1.0	2.0
Charleston (dtl)	1.4	1.0	2.0	1.7	1.0	2.0
HC92-89PR	1.6	2.0	2.0	1.8	1.0	2.0
HC92-145	1.2	1.0	1.0	1.2	1.0	2.0
HC92-165PR	1.5	2.0	1.0	1.4	1.0	2.0
HC92-168PR	1.5	1.0	2.0	1.4	1.0	2.0
HC92-743	1.8	1.0	2.0	1.5	1.0	2.0
HC92-984	1.2	1.0	1.0	1.2	1.0	2.0
HC94-62PR	1.4	1.0	2.0	1.2	1.0	2.0
HC94-69PR	1.4	1.0	2.0	1.4	1.0	2.0

PRELIMINARY TEST IIIB, 1996

SEED QUALITY (score)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	1.0	1.0	1.0	1.0	1.5
Iroquois (III)	1.0	2.0	1.0	1.0	1.5
Macon (L)	1.0	1.5	1.0	1.0	1.5
HS93-3779	1.0	1.5	1.0	1.0	1.5
K1345	1.0	1.5	1.0	1.0	2.0
K1346	1.0	1.5	2.0	1.0	1.5
K1347	3.0	1.5	1.0	1.0	1.5
K1348	2.0	1.5	1.0	1.0	1.8
K1349	1.0	1.0	1.0	1.0	1.0
K1350	1.0	1.0	1.0	1.0	2.3
K1351	2.0	1.5	1.0	1.0	2.0
LN92-11498	2.0	1.0	1.0	1.0	1.3
LN93-4468	1.0	1.5	1.0	1.0	1.3
LN93-5197	1.0	2.0	1.0	1.0	1.8
LN93-5265	1.0	1.5	1.0	1.0	1.5
LN93-5299	1.0	1.5	1.0	1.0	1.5
LN93-6553	2.0	1.5	1.5	1.0	1.5
LN93-7027	1.0	1.5	1.0	1.0	1.3
LN93-11586	1.0	2.0	1.0	1.0	2.0
LN93-11632	3.0	1.0	1.0	1.0	2.0
LN93-11945	3.0	1.0	2.0	1.0	1.3
SS91-4587	3.0	2.0	1.0	1.0	2.0
SS91-6655	3.0	2.0	1.0	1.0	2.0
SS92-1698	5.0	1.5	1.5	1.0	2.0
SS92-2060	5.0	1.5	1.0	1.0	2.0
SS92-6010	2.0	1.5	1.5	1.0	1.5
SS92-6997	2.0	2.0	1.0	1.0	2.0
SS92-7243	2.0	1.5	2.0	1.0	2.0
SS92-9047	1.0	1.0	1.0	1.0	2.5
SS93-4165	4.0	2.0	1.0	1.0	1.8
SS93-4184	3.0	2.0	1.0	1.0	2.0
Charleston (dtl)	1.0	2.0	1.0	1.0	1.5
HC92-89PR	2.0	2.0	1.0	1.0	1.3
HC92-145	1.0	1.0	1.0	1.0	1.3
HC92-165PR	3.0	1.0	1.0	1.0	1.5
HC92-168PR	2.0	2.0	1.0	1.0	1.5
HC92-743	5.0	1.5	1.0	1.0	2.0
HC92-984	1.0	1.0	1.0	1.0	2.0
HC94-62PR	1.0	2.0	1.0	1.0	1.8
HC94-69PR	1.0	2.0	1.0	1.0	1.3

PRELIMINARY TEST IIIB, 1996

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
IA2022 (II)	15.6	15.2	15.2	16.4	15.2	17.2
Iroquois (III)	15.8	15.5	15.2	15.8	15.5	17.0
Macon (L)	17.0	17.2	16.4	17.5	16.9	16.8
HS93-3779	16.0	15.4	15.6	14.7	16.3	16.0
K1345	14.6	14.4	14.2	13.9	14.0	14.7
K1346	14.7	13.5	13.8	13.9	13.4	16.7
K1347	16.7	15.9	15.5	17.0	16.0	18.9
K1348	15.3	15.6	14.0	14.6	15.2	15.6
K1349	15.8	21.5	13.8	14.2	14.6	16.3
K1350	17.1	16.8	15.6	17.5	15.8	18.7
K1351	14.4	14.5	13.4	13.4	14.1	15.1
LN92-11498	15.5	14.6	14.3	15.5	15.4	16.2
LN93-4468	15.4	15.6	15.4	15.1	14.7	15.9
LN93-5197	16.0	15.5	16.0	15.3	15.6	17.5
LN93-5265	16.0	15.8	15.8	15.7	16.1	17.1
LN93-5299	17.0	16.0	15.6	15.7	16.2	17.7
LN93-6553	15.3	14.8	15.3	13.3	14.4	18.2
LN93-7027	15.2	14.8	14.3	14.5	14.9	14.8
LN93-11586	16.5	15.4	16.0	15.7	16.4	17.3
LN93-11632	17.2	16.4	16.4	17.0	16.8	18.5
LN93-11945	18.5	17.2	16.7	19.1	18.2	20.2
SS91-4587	16.9	16.2	15.8	16.6	15.4	18.6
SS91-6655	14.6	13.9	13.4	15.2	13.7	15.9
SS92-1698	14.7	14.0	13.7	15.6	14.6	16.0
SS92-2060	15.4	15.2	13.9	14.5	15.0	17.3
SS92-6010	15.3	14.6	14.2	15.1	15.1	15.9
SS92-6997	15.7	15.5	15.0	16.6	15.6	16.6
SS92-7243	16.1	15.0	15.2	15.9	15.4	18.4
SS92-9047	16.9	16.7	17.5	16.3	17.2	18.0
SS93-4165	15.3	15.8	14.0	15.1	14.0	16.5
SS93-4184	13.6	14.0	12.8	13.2	12.8	15.3
Charleston (dt1)	15.0	15.0	13.8	16.0	14.7	16.7
HC92-89PR	16.9	17.8	16.0	17.2	17.5	17.7
HC92-145	14.6	14.2	13.2	14.7	14.1	16.4
HC92-165PR	17.1	16.7	16.2	17.9	15.8	20.7
HC92-168PR	17.5	17.2	16.6	17.9	16.6	21.4
HC92-743	14.2	14.6	12.9	13.7	14.0	17.0
HC92-984	15.8	15.3	14.8	15.2	16.0	17.7
HC94-62PR	15.0	15.0	13.8	15.6	14.6	16.1
HC94-69PR	14.1	14.2	12.8	13.5	13.9	16.9

PRELIMINARY TEST IIIB, 1996

SEED SIZE (g/100)

Strain	Columbia MO	Tekamah NE	York NE	Hoyt-ville OH	So. Charles-ton OH
IA2022 (II)	15.6	15.6	15.8	14.9	15.3
Iroquois (III)	16.9	16.5	16.1	14.1	14.9
Macon (L)	16.2	19.0	19.0	13.6	17.8
HS93-3779	15.0	19.4	17.9	14.0	15.3
K1345	15.3	15.7	15.6	15.2	13.1
K1346	13.1	16.2	15.9	15.9	14.7
K1347	17.1	18.4	16.8	15.0	16.8
K1348	13.5	17.7	15.5	16.7	14.2
K1349	15.1	16.5	15.7	14.8	15.2
K1350	----	18.3	17.5	15.9	17.5
K1351	14.9	16.8	14.8	13.8	13.3
LN92-11498	13.9	18.3	16.4	15.9	14.3
LN93-4468	15.0	16.9	16.4	13.0	15.9
LN93-5197	15.0	17.3	16.9	15.4	15.7
LN93-5265	14.5	17.9	17.3	14.3	15.9
LN93-5299	18.0	18.6	18.1	16.4	17.8
LN93-6553	14.7	16.5	17.2	13.4	15.3
LN93-7027	15.4	17.2	16.3	14.6	15.1
LN93-11586	16.8	18.2	17.2	16.0	15.7
LN93-11632	17.8	18.7	17.5	15.9	17.0
LN93-11945	20.1	19.4	19.8	15.0	19.0
SS91-4587	18.5	18.3	17.6	15.1	17.3
SS91-6655	15.5	15.7	14.7	14.0	14.1
SS92-1698	13.5	15.9	15.2	14.0	14.2
SS92-2060	----	15.9	16.2	15.0	15.6
SS92-6010	16.2	16.7	16.3	14.3	14.6
SS92-6997	14.7	16.3	16.2	15.6	15.1
SS92-7243	16.8	17.1	17.2	13.8	15.7
SS92-9047	16.0	18.4	17.5	13.8	17.4
SS93-4165	15.4	15.9	16.0	15.4	15.1
SS93-4184	11.8	14.8	14.0	13.3	13.6
Charleston (dt1)	13.8	16.1	15.1	14.1	14.6
HC92-89PR	16.7	16.8	17.5	15.2	16.8
HC92-145	14.7	17.2	14.6	13.1	13.8
HC92-165PR	15.8	17.9	18.6	14.5	17.1
HC92-168PR	16.8	18.8	18.2	15.2	16.3
HC92-743	13.6	13.5	15.0	12.9	14.7
HC92-984	15.7	16.5	16.4	15.1	15.6
HC94-62PR	15.3	15.6	16.1	14.0	14.1
HC94-69PR	12.6	15.2	14.8	14.4	12.9

PRELIMINARY TEST IIIB, 1996

PROTEIN (%)

Strain	Mean 4 Tests	Fairfield IA	Urbana IL	Lafayette IN	York NB
IA2022 (II)	42.0	41.3	41.9	41.7	43.1
Iroquois (III)	41.6	41.1	41.7	41.0	42.7
Macon (L)	41.0	39.7	41.4	40.3	42.6
HS93-3779	40.9	40.5	42.1	40.0	41.1
K1345	41.7	41.0	41.8	41.0	43.0
K1346	42.0	42.1	41.6	41.4	42.8
K1347	41.6	40.9	42.3	40.6	42.6
K1348	41.6	40.7	41.9	41.4	42.4
K1349	41.7	41.2	42.4	41.4	41.9
K1350	41.2	40.1	41.5	40.7	42.6
K1351	42.0	40.8	42.6	41.4	43.0
LN92-11498	41.9	40.4	41.8	41.0	44.2
LN93-4468	41.5	41.0	42.2	42.2	40.7
LN93-5197	41.4	40.5	41.7	40.7	42.5
LN93-5265	42.6	41.4	42.7	42.0	44.1
LN93-5299	41.4	41.1	42.4	39.7	42.4
LN93-6553	41.4	40.2	41.0	41.7	42.7
LN93-7027	42.4	41.3	41.8	42.3	44.1
LN93-11586	43.6	42.6	44.2	42.7	44.7
LN93-11632	41.0	39.7	40.9	40.7	42.6
LN93-11945	43.0	41.7	44.4	42.0	44.0
SS91-4587	42.5	42.3	43.1	41.5	43.0
SS91-6655	41.0	39.4	41.6	41.0	42.0
SS92-1698	41.8	40.9	41.9	41.3	43.1
SS92-2060	41.5	41.0	42.2	41.0	41.6
SS92-6010	41.2	39.3	41.5	41.1	42.8
SS92-6997	41.0	40.3	41.2	40.0	42.5
SS92-7243	41.9	42.1	41.2	41.6	42.8
SS92-9047	41.6	40.4	41.3	41.8	43.0
SS93-4165	42.5	42.1	43.3	41.6	42.8
SS93-4184	42.0	40.8	43.1	41.0	43.2
Charleston (dt1)	41.6	41.5	41.9	41.2	41.9
HC92-89PR	42.7	42.5	43.3	42.8	42.2
HC92-145	41.6	41.2	42.7	40.6	42.0
HC92-165PR	41.5	40.5	42.9	40.6	41.8
HC92-168PR	42.0	40.9	43.2	42.2	41.7
HC92-743	40.9	40.4	41.2	41.2	40.7
HC92-984	42.7	42.3	43.1	42.8	42.4
HC94-62PR	42.2	42.0	42.1	41.8	42.8
HC94-69PR	41.2	40.4	41.5	40.8	42.0

PRELIMINARY TEST IIIB, 1996

OIL (%)

Strain	Mean 4 Tests	Fairfield IA	Urbana IL	Lafayette IN	York NB
IA2022 (II)	20.5	20.4	21.1	20.2	20.2
Iroquois (III)	20.5	18.9	21.7	20.4	20.8
Macon (L)	20.4	19.6	20.9	20.6	20.4
HS93-3779	20.6	19.8	21.0	21.0	20.4
K1345	20.0	19.5	20.5	19.9	20.1
K1346	19.8	18.7	20.9	19.8	19.7
K1347	18.8	18.1	19.5	18.6	19.1
K1348	19.9	19.0	21.2	19.6	19.8
K1349	19.5	18.6	20.2	19.5	19.7
K1350	19.8	18.8	20.6	19.4	20.2
K1351	20.0	19.1	20.5	20.0	20.5
LN92-11498	20.2	19.3	21.0	20.3	20.1
LN93-4468	20.8	20.5	21.6	20.6	20.3
LN93-5197	20.0	19.7	20.5	19.9	19.8
LN93-5265	19.7	19.3	20.3	19.9	19.1
LN93-5299	19.7	19.6	20.2	19.5	19.6
LN93-6553	20.8	20.5	21.6	20.5	20.5
LN93-7027	19.9	19.0	21.0	19.6	19.9
LN93-11586	19.9	19.3	20.6	19.7	19.8
LN93-11632	19.6	18.4	20.5	19.7	19.7
LN93-11945	20.0	18.8	20.9	20.0	20.1
SS91-4587	19.6	18.3	21.0	19.5	19.5
SS91-6655	20.1	19.5	21.1	19.9	19.9
SS92-1698	20.0	19.3	20.9	19.7	20.0
SS92-2060	20.1	19.3	20.6	19.8	20.6
SS92-6010	19.9	19.2	21.1	19.2	20.0
SS92-6997	20.1	18.7	21.5	20.1	20.1
SS92-7243	20.4	20.6	20.4	20.4	20.0
SS92-9047	20.2	19.5	21.2	19.7	20.2
SS93-4165	18.7	17.1	19.8	18.5	19.3
SS93-4184	19.7	19.3	19.9	19.7	19.7
Charleston (dt1)	19.7	18.7	20.5	19.1	20.3
HC92-89PR	20.3	19.0	21.2	19.8	21.2
HC92-145	20.4	19.9	20.9	20.2	20.7
HC92-165PR	20.7	19.9	21.5	20.4	21.1
HC92-168PR	20.7	19.9	21.1	19.9	21.9
HC92-743	20.7	20.0	21.1	20.7	21.0
HC92-984	19.6	19.0	20.1	19.2	20.2
HC94-62PR	19.7	18.6	20.6	19.5	19.9
HC94-69PR	20.0	18.5	21.3	19.4	20.7

UNIFORM TEST IV, 1996

	Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
1.	Delsoy 4210 (SCN)	(Williams x PI 88.788) x (Union x Douglas)	8	F6	SCN 3,4
2.	KS4694 (L)	Sherman x Toano	5	F5	
3.	Macon (III)	Sherman x Resnik	-	F5	
4.	Ripley (dt1)	Hodgson x V68-1034	4	F5	
5.	Stressland (IV)	HC80-1946 x Asgrow A3127	3	F5	
6.	HC90-196	Sprite 87 x HC80-1756	1	F5	dt1
7.	HC91-1770	Hutcheson x HC78-676 BC	PT IVB	F5	dt1
8.	HS93-4118	IA2007 x Dairyland DSR 304	PT IVA	F5	Rps1-c
9.	LN91-1695	Asgrow A3733 x Resnik	PT IVB	F5	Rps1-k
10.	LN91-1733	Asgrow A3733 x Resnik	1	F5	Rps1-k
11.	LN92-8605	C1747 x IA2007	PT IVB	F5	
12.	LS92-3660	Resnik x Asgrow A5474	PT IVA	F6	SCN 3
13.	LS92-4173	Flyer x Pyramid	PT IVA	F6	SCN 3
14.	Md92-5850	Hamilton x Bass	PT IVA	F5	
15.	S92-2712 (SCN)	Williams (2) x (Forrest x PI 437.654)	SCN IV	?	
16.	SS91-7138	Pioneer P9442 x Pioneer P9461	1	F5	
17.	SS92-7540	Pioneer P9442 x Asgrow A3935	PT IVA	F5	
18.	SS92-7557	Pioneer P9442 x Asgrow A3935	PT IVA	F5	

* Number of years in test or name of 1995 test.

UNIFORM TEST IV, 1996

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Lamber-ton	Emerg. Score Hum-boldt	Shattering Score Man-hattan
Delsoy 4210 (SCN)	WTTSYBrI	3.7	4	1
KS4694 (L)	WGTDYBfI	4.0	1	1
Macon (III)	WTBDYBlI	3.7	2	1
Ripley (dt1)	PGTSYBfD	3.0	1	1
Stressland (IV)	PTTDYBlI	5.0	1	1
HC90-196 (dt1)	WTTDYBlD	4.7	1	1
HC91-1770 (dt1)	WTTDYBrD	2.7	1	1
HS93-4118	WGBDYIbI	2.0	1	1
LN91-1695	PTTDYBlI	3.7	1	1
LN91-1733	PTTDYBlI	4.3	1	1
LN92-8605	WTBDYBrI	3.0	1	1
LS92-3660	PTBDYBlI	4.0	1	1
LS92-4173	PGTDYIbI	3.7	2	1
Md92-5850	PGTDYHI	3.7	1	1
S92-2712 (SCN)	WTBSYBlI	3.3	3	1
SS91-7138	WTBSYBlI	4.0	4	1
SS92-7540	P+WTBDYBlI	4.3	1	1
SS92-7557	WTBDYBlI	4.0	1	1

UNIFORM TEST IV, 1996

DISEASE DATA

Strain	PR Lafayette Race 7	Hard Seed Lafayette %	PS Lafayette a %	PSB n %	PSB Vinc. n %
Delsoy 4210 (SCN)	S	0	16	2	40
KS4694 (L)	S	0	36	4	18
Macon (III)	R	0	78	10	50
Ripley (dt1)	S	0	2	0	36
Stressland (IV)	S	0	16	0	58
HC90-196 (dt1)	R	0	4	0	62
HC91-1770 (dt1)	R	0	22	0	42
HS93-4118	R	0	40	0	34
LN91-1695	R	0	32	0	48
LN91-1733	R	0	16	0	50
LN92-8605	R	0	42	0	32
LS92-3660	R	0	28	0	52
LS92-4173	S	0	2	0	50
Md92-5850	S	0	76	0	48
S92-2712 (SCN)	H	0	14	4	6
SS91-7138	S	0	62	4	34
SS92-7540	R	0	52	0	50
SS92-7557	S	0	38	2	52

UNIFORM TEST IV, 1996

SDS DATA

Strain	R6DI	R6DS	R6DX	DX Rank
Delsoy 4210 (SCN	-2.8	1.1	0.0	2
KS4694 (L)	11.6	1.0	1.0	9
Macon (III)	1.4	1.1	0.2	5
Ripley (dt1)	4.7	1.0	0.3	6
Stressland (IV)	65.4	1.4	9.9	16
HC90-196 (dt1)	10.1	1.1	0.9	8
HC91-1770 (dt1)	24.5	1.3	2.9	10
HS93-4118	39.8	1.2	5.0	12
LN91-1695	65.3	1.4	8.7	15
LN91-1733	92.6	1.5	14.6	19
LN92-8605	77.3	1.4	11.0	17
LS92-3660	-1.8	1.1	0.0	3
LS92-4173	-7.2	1.3	-0.1	1
Md92-5850	-0.5	1.1	1.0	4
S92-2712 (SCN)	2.3	1.4	0.5	7
SS91-7138	39.3	1.8	5.4	13
SS92-7540	50.9	1.2	5.9	14
SS92-7557	74.7	1.4	11.2	18

UNIFORM TEST IV, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 16 Date	Lodging 17 Score	Plant Height 17 In.	Seed Quality 16 Score	Seed Size 16 g/100	Composition Protein 5 %	 Oil 5 %
Delsoy 4210 (SCN)	41.5	17	3.8	1.9	35	1.4	16.4	41.5	20.9
KS4694 (L)	50.9	8	5.3	1.7	32	1.3	16.4	41.4	20.3
Macon (III)	49.1	13	-5.3	1.2	28	1.4	16.1	41.2	21.4
Ripley (dt1)	42.7	16	-1.1	1.2	19	1.3	12.8	40.4	20.8
Stressland (IV)	53.9	1	10/03	1.9	36	1.4	13.6	43.5	20.4
HC90-196 (dt1)	50.9	8	-3.2	1.3	22	1.5	16.0	40.2	22.1
HC91-1770 (dt1)	49.8	11	-1.4	1.2	21	1.5	13.4	41.0	20.7
HS93-4118	52.4	4	-1.8	1.5	29	1.5	15.7	40.0	20.7
LN91-1695	52.5	3	-3.1	1.2	29	1.3	15.9	42.5	21.2
LN91-1733	52.4	4	-2.3	1.2	30	1.3	14.4	42.1	21.5
LN92-8605	49.2	12	-1.8	1.2	27	1.6	15.6	41.2	20.5
LS92-3660	48.9	14	-1.6	2.3	36	1.5	15.1	43.2	19.6
LS92-4173	47.0	15	4.6	1.9	34	1.4	14.9	40.4	19.9
Md92-5850	50.0	10	-2.7	1.4	30	1.5	13.9	40.6	22.1
S92-2712 (SCN)	40.3	18	6.5	2.5	34	1.7	16.5	41.2	20.7
SS91-7138	53.1	2	-0.2	1.6	32	1.3	14.5	41.1	21.2
SS92-7540	51.7	7	-1.1	1.3	29	1.5	15.2	41.2	21.3
SS92-7557	51.8	6	0.5	1.3	30	1.5	15.7	41.3	20.9

121.6 Days After Planting

UNIFORM TEST IV, 1996

1995-1996 2-YEAR MEAN

No. of Tests Strain	Yield 30 bu/a	Rank 30 No.	Maturity 31 Date	Lodging 34 Score	Plant Height 34 In.	Seed Quality 32 Score	Seed Size 32 g/100	Composition Protein 10 %	 Oil 10 %
Delsoy 4210	40.8	7	3.0	1.9	37	1.7	15.2	42.6	20.7
KS4694	47.1	4	5.2	1.6	33	1.5	15.0	41.4	20.2
Ripley	41.5	6	-1.5	1.2	20	1.4	12.0	41.2	20.6
Stressland	49.5	1	9/30.0	1.8	36	1.3	12.7	43.8	20.4
HC90-196	47.0	5	-3.2	1.2	23	1.3	14.6	41.0	21.5
LN91-1733	49.3	2	-1.5	1.2	30	1.4	13.8	43.1	21.2
SS91-7138	49.0	3	1.1	1.5	33	1.6	13.8	41.8	20.7

120.1 Days After Planting

UNIFORM TEST IV, 1996

YIELD (bu/a)

Strain	Mean 15 Tests	George-town DE	Belle-* ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana** IL	Butler-ville IN
Delsoy 4210 (SCN)	41.5	17.3	48.7	54.6	14.6	37.3	50.1	33.6
KS4694 (L)	50.9	22.1	40.0	64.8	29.9	71.0	26.4	42.8
Macon (III)	49.1	25.1	33.1	62.3	28.0	64.7	30.1	38.7
Ripley (dt1)	42.7	19.7	35.8	51.2	31.1	46.6	15.0	41.2
Stressland (IV)	53.9	27.1	47.6	61.8	40.1	68.5	36.9	53.8
HC90-196 (dt1)	50.9	25.5	40.7	60.6	34.3	65.2	21.8	46.7
HC91-1770 (dt1)	49.8	27.0	40.4	62.0	29.5	65.0	19.4	35.4
HS93-4118	52.4	25.0	49.5	61.5	29.4	60.6	29.5	49.2
LN91-1695	52.5	30.0	37.7	55.3	29.4	67.2	28.8	46.0
LN91-1733	52.4	33.7	38.3	58.2	25.8	69.9	27.9	40.6
LN92-8605	49.2	26.9	28.2	56.3	30.2	60.9	21.0	33.8
LS92-3660	48.9	25.7	52.7	56.7	40.5	66.1	46.4	41.2
LS92-4173	47.0	28.0	48.3	60.5	31.8	60.2	54.0	39.2
Md92-5850	50.0	24.0	36.1	57.0	23.6	61.9	18.8	34.3
S92-2712 (SCN)	40.3	24.0	48.6	52.5	19.0	42.7	47.4	37.2
SS91-7138	53.1	26.7	40.1	56.9	36.4	73.5	29.9	46.6
SS92-7540	51.7	26.7	45.1	59.4	35.3	71.2	28.1	40.0
SS92-7557	51.8	24.5	35.2	59.7	35.2	67.1	26.0	40.7
C.V. (%)		9.9	22.8	6.0	13.9	13.3	16.4	16.1
L.S.D. (5%)		3.6	15.9	5.7	7.0	13.2	8.5	10.9
Row Sp. (In.)		15	30	30	30	30	30	26
Rows/Plot		5	4	4	4	4	4	4
Reps		4	3	3	3	3	3	3

* Data not included in the mean.
** SCN damage. Data not included in the mean.

UNIFORM TEST IV, 1996

YIELD (bu/a)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	48.0	55.2	47.7	60.0	51.9	39.5	44.0
KS4694 (L)	44.9	67.9	48.8	64.4	54.5	45.2	50.9
Macon (III)	51.3	66.0	50.8	67.5	55.5	39.9	44.1
Ripley (dt1)	46.1	50.3	27.7	62.5	50.2	42.5	28.0
Stressland (IV)	56.9	67.5	50.9	69.1	54.3	45.2	49.6
HC90-196 (dt1)	57.7	68.7	42.7	71.4	51.1	43.7	34.2
HC91-1770 (dt1)	60.9	59.3	43.0	68.2	47.8	45.5	39.0
HS93-4118	58.7	66.1	48.1	70.8	54.3	45.0	49.1
LN91-1695	59.7	68.5	50.6	69.1	53.9	43.5	47.6
LN91-1733	55.4	66.6	47.0	73.9	56.1	45.5	46.3
LN92-8605	57.7	62.8	50.5	64.5	50.7	40.7	51.4
LS92-3660	47.0	62.4	44.2	69.8	48.7	45.5	40.1
LS92-4173	41.6	58.8	46.6	58.7	51.2	48.2	51.3
Md92-5850	51.4	69.7	49.5	67.7	53.7	46.8	52.3
S92-2712 (SCN)	35.0	59.5	38.7	61.7	44.9	37.4	43.1
SS91-7138	52.7	64.7	54.0	67.1	56.0	47.4	46.9
SS92-7540	55.2	67.2	51.2	66.3	52.6	48.0	46.4
SS92-7557	53.8	69.6	49.8	70.3	56.1	44.5	44.1
C.V. (%)	6.2	4.8	4.8	8.1	5.5	9.2	8.1
L.S.D. (5%)	5.3	4.2	3.1	7.4	4.8	6.7	6.1
Row Sp. (In.)	24	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST IV, 1996

YIELD (bu/a)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	25.0	37.5	55.7
KS4694 (L)	33.5	52.9	69.6
Macon (III)	39.2	38.4	65.4
Ripley (dtl)	36.4	49.5	57.9
Stressland (IV)	40.8	57.8	65.7
HC90-196 (dtl)	38.8	52.7	70.9
HC91-1770 (dtl)	45.1	51.6	67.9
HS93-4118	39.5	54.0	74.0
LN91-1695	45.0	50.6	70.5
LN91-1733	42.3	55.3	70.1
LN92-8605	40.3	49.0	62.1
LS92-3660	36.9	48.0	60.3
LS92-4173	34.0	32.2	62.8
Md92-5850	39.7	49.0	69.5
S92-2712 (SCN)	28.8	29.3	51.0
SS91-7138	41.5	53.1	73.4
SS92-7540	38.2	49.4	68.5
SS92-7557	41.6	49.6	70.7
C.V. (%)	12.9	14.9	5.9
L.S.D. (5%)	8.1	12.4	6.5
Row Sp. (In.)	30	15	7.5
Rows/Plot	4	6	8
Reps	3	3	3

UNIFORM TEST IV, 1996

YIELD RANK

Strain	Yield Rank	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	17	18	3	16	18	18	2	18
KS4694 (L)	8	16	11	1	10	3	12	6
Macon (III)	13	12	17	2	14	11	6	13
Ripley (dt1)	16	17	15	18	8	16	18	7
Stressland (IV)	1	4	6	4	2	5	5	1
HC90-196 (dt1)	8	10	8	6	6	9	14	3
HC91-1770 (dt1)	11	5	9	3	11	10	16	15
HS93-4118	4	11	2	5	12	14	8	2
LN91-1695	3	2	13	15	12	6	9	5
LN91-1733	4	1	12	10	15	4	11	10
LN92-8605	12	6	18	14	9	13	15	17
LS92-3660	14	9	1	13	1	8	4	7
LS92-4173	15	3	5	7	7	15	1	12
Md92-5850	10	14	14	11	16	12	17	16
S92-2712 (SCN)	18	14	4	17	17	17	3	14
SS91-7138	2	7	10	12	3	1	7	4
SS92-7540	7	7	7	9	4	2	10	11
SS92-7557	6	13	16	8	5	7	13	9

UNIFORM TEST IV, 1996

YIELD RANK

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	13	17	11	17	11	17	13
KS4694 (L)	16	4	9	14	5	8	4
Macon (III)	12	10	3	10	4	16	11
Ripley (dt1)	15	18	18	15	15	14	18
Stressland (IV)	6	5	3	6	6	8	5
HC90-196 (dt1)	4	3	16	2	13	12	17
HC91-1770 (dt1)	1	15	15	8	17	5	16
HS93-4118	3	9	10	3	6	10	6
LN91-1695	2	5	5	6	8	13	7
LN91-1733	7	8	12	1	1	5	10
LN92-8605	4	12	6	13	14	15	2
LS92-3660	14	13	14	5	16	5	15
LS92-4173	17	16	13	18	12	1	3
Md92-5850	11	1	8	9	9	4	1
S92-2712 (SCN)	18	14	17	16	18	18	14
SS91-7138	10	11	1	11	3	3	8
SS92-7540	8	7	2	12	10	2	9
SS92-7557	9	2	7	4	1	11	11

UNIFORM TEST IV, 1996

YIELD RANK

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	18	16	17
KS4694 (L)	16	5	7
Macon (III)	10	15	12
Ripley (dt1)	14	10	16
Stressland (IV)	6	1	11
HC90-196 (dt1)	11	6	3
HC91-1770 (dt1)	1	7	10
HS93-4118	9	3	1
LN91-1695	2	8	5
LN91-1733	3	2	6
LN92-8605	7	12	14
LS92-3660	13	14	15
LS92-4173	15	17	13
Md92-5850	8	12	8
S92-2712 (SCN)	17	18	18
SS91-7138	5	4	2
SS92-7540	12	11	9
SS92-7557	4	9	4

UNIFORM TEST IV, 1996

MATURITY (date)

Strain	Mean 16 Tests	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	3.8	6	5	2	6	5	7	1
KS4694 (L)	5.3	5	6	7	3	6	4	2
Macon (III)	-5.3	-6	-6	-1	-6	-3	-5	-4
Ripley (dt1)	-1.1	-6	4	0	1	-1	1	3
Stressland (IV)	10/03	10/01	10/01	09/25	10/07	09/28	09/29	10/17
HC90-196 (dt1)	-3.2	-6	-3	-1	-4	-1	-4	-1
HC91-1770 (dt1)	-1.4	-4	1	2	-2	0	-2	-2
HS93-4118	-1.8	0	0	0	-2	-1	-2	-1
LN91-1695	-3.1	-1	-3	0	-4	-3	-2	-1
LN91-1733	-2.3	0	-3	0	-2	-2	-1	-2
LN92-8605	-1.8	0	-5	0	-2	-1	2	-2
LS92-3660	-1.6	1	1	0	-1	-1	-2	-2
LS92-4173	4.6	7	7	5	5	7	6	1
Md92-5850	-2.7	-5	-4	0	-4	-1	-5	-2
S92-2712 (SCN)	6.5	8	9	7	8	9	6	7
SS91-7138	-0.2	0	1	0	1	0	0	0
SS92-7540	-1.1	0	-1	0	0	-1	0	-2
SS92-7557	0.5	1	3	1	0	1	-1	2
Date Planted	06/03	06/18	05/29	05/25	06/17	06/03	05/22	06/27
Days to Mature	121.6	105	125	123	112	117	130	112

UNIFORM TEST IV, 1996

MATURITY (date)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	0	1		6	2	3	12
KS4694 (L)	0	7		12	7	5	11
Macon (III)	-9	-6		-4	-3	-4	0
Ripley (dt1)	-1	-3		2	-4	-4	-1
Stressland (IV)	10/16	10/02		09/27	10/04	09/21	09/09
HC90-196 (dt1)	-4	-3		2	-3	-3	0
HC91-1770 (dt1)	-2	0		0	0	-2	2
HS93-4118	-2	-3		-1	0	-4	2
LN91-1695	-4	-2		-3	-3	-4	0
LN91-1733	-4	-1		-3	-1	-2	2
LN92-8605	-3	1		-1	0	-3	2
LS92-3660	-3	-2		0	-1	-2	1
LS92-4173	0	4		6	5	7	12
Md92-5850	-4	0		2	-1	-3	2
S92-2712 (SCN)	-2	7		11	7	6	13
SS91-7138	-3	2		2	2	-2	3
SS92-7540	-4	0		0	1	0	2
SS92-7557	-2	2		2	2	-1	2
Date Planted	06/16	05/21		05/22	06/07	05/20	05/17
Days to Mature	122	134		128	119	124	115

UNIFORM TEST IV, 1996

MATURITY (date)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	-3	5	3
KS4694 (L)	-1	3	7
Macon (III)	-7	-10	-11
Ripley (dt1)	-6	1	-3
Stressland (IV)	10/22	10/15	10/08
HC90-196 (dt1)	-8	-7	-5
HC91-1770 (dt1)	-7	-2	-4
HS93-4118	-5	-4	-6
LN91-1695	-7	-7	-6
LN91-1733	-7	-6	-5
LN92-8605	-4	-6	-6
LS92-3660	-5	-5	-5
LS92-4173	-1	1	2
Md92-5850	-5	-7	-6
S92-2712 (SCN)	-1	4	5
SS91-7138	-3	-3	-3
SS92-7540	-4	-5	-4
SS92-7557	-1	0	-3
Date Planted	06/25	06/18	05/20
Days to Mature	119	119	141

UNIFORM TEST IV, 1996

LODGING (score)

Strain	Mean 17 Tests	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	1.9	1.0	1.0	2.0	1.0	1.7	1.0	1.0
KS4694 (L)	1.7	1.0	1.0	2.0	1.0	1.7	1.0	1.0
Macon (III)	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Ripley (dt1)	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Stressland (IV)	1.9	1.0	1.0	3.0	1.0	2.0	1.0	1.0
HC90-196 (dt1)	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC91-1770 (dt1)	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HS93-4118	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LN91-1695	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LN91-1733	1.2	1.0	1.0	1.0	1.0	1.3	1.0	1.0
LN92-8605	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LS92-3660	2.3	1.0	1.0	2.0	1.0	2.3	1.0	1.0
LS92-4173	1.9	1.0	1.0	4.0	1.0	2.3	1.0	1.0
Md92-5850	1.4	1.0	1.0	1.0	1.0	1.7	1.0	1.0
S92-2712 (SCN)	2.5	2.0	3.0	4.0	1.0	2.7	1.0	1.2
SS91-7138	1.6	1.0	1.0	1.0	1.0	1.7	1.0	1.0
SS92-7540	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SS92-7557	1.3	1.0	1.0	1.0	1.0	1.7	1.0	1.0

UNIFORM TEST IV, 1996

LODGING (score)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	2.3	3.0	1.7	4.3	2.7	2.0	1.0
KS4694 (L)	2.5	2.0	1.0	4.2	2.5	1.0	1.0
Macon (III)	1.0	1.0	1.0	1.3	2.2	1.3	1.0
Ripley (dt1)	1.3	1.0	1.0	1.7	1.0	1.0	1.0
Stressland (IV)	2.3	2.0	1.7	3.5	2.8	1.7	1.0
HC90-196 (dt1)	1.0	1.0	1.0	2.0	1.0	1.0	1.0
HC91-1770 (dt1)	1.0	1.0	1.0	1.2	1.0	1.0	1.0
HS93-4118	1.3	2.0	1.0	2.7	1.7	1.0	1.0
LN91-1695	1.0	1.0	1.0	1.2	1.7	1.0	1.0
LN91-1733	1.0	1.0	1.0	1.7	1.8	1.0	1.0
LN92-8605	1.0	1.0	1.0	2.0	1.5	1.0	1.0
LS92-3660	3.5	3.0	2.3	4.0	3.3	2.5	1.5
LS92-4173	2.7	1.0	1.3	4.2	1.7	1.0	1.0
Md92-5850	1.7	1.0	1.0	2.5	1.8	1.0	1.0
S92-2712 (SCN)	3.2	3.0	1.7	4.2	3.2	2.3	1.5
SS91-7138	2.2	1.0	1.0	2.7	2.7	1.7	1.0
SS92-7540	1.2	1.0	1.0	1.5	2.0	1.3	1.0
SS92-7557	1.2	1.0	1.0	2.0	2.0	1.0	1.0

UNIFORM TEST IV, 1996

LODGING (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	3.3	1.4	2.2
KS4694 (L)	4.0	1.0	1.8
Macon (III)	2.3	1.0	1.0
Ripley (dt1)	4.0	1.0	1.2
Stressland (IV)	3.7	1.2	2.2
HC90-196 (dt1)	4.7	1.0	1.0
HC91-1770 (dt1)	4.7	1.1	1.0
HS93-4118	4.7	1.0	1.3
LN91-1695	2.7	1.0	1.2
LN91-1733	3.3	1.0	1.0
LN92-8605	2.3	1.0	1.3
LS92-3660	5.0	1.2	3.2
LS92-4173	4.7	1.1	1.5
Md92-5850	3.7	1.1	1.5
S92-2712 (SCN)	4.7	1.2	3.2
SS91-7138	4.0	1.2	1.5
SS92-7540	3.3	1.0	1.2
SS92-7557	3.0	1.1	1.2

UNIFORM TEST IV, 1996

PLANT HEIGHT (inches)

Strain	Mean 17 Tests	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	35	26	37	43	28	34	39	23
KS4694 (L)	32	24	27	33	26	37	24	22
Macon (III)	28	23	22	32	23	31	26	21
Ripley (dt1)	19	17	17	16	19	16	16	19
Stressland (IV)	36	29	36	41	32	36	34	28
HC90-196 (dt1)	22	20	20	19	21	21	20	22
HC91-1770 (dt1)	21	20	18	19	21	22	19	18
HS93-4118	29	23	27	32	25	33	25	24
LN91-1695	29	25	26	33	25	33	28	22
LN91-1733	30	26	26	34	26	32	28	24
LN92-8605	27	24	24	28	23	31	22	19
LS92-3660	36	32	35	39	33	40	34	28
LS92-4173	34	28	34	40	29	36	36	26
Md92-5850	30	23	25	33	24	36	21	20
S92-2712 (SCN)	34	22	35	38	28	40	36	26
SS91-7138	32	28	28	32	28	37	25	24
SS92-7540	29	24	27	31	27	34	21	22
SS92-7557	30	24	25	31	26	34	23	22

UNIFORM TEST IV, 1996

PLANT HEIGHT (inches)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	38	41	39	50	36	37	35
KS4694 (L)	37	42	34	38	37	31	31
Macon (III)	28	40	29	34	31	29	25
Ripley (dt1)	29	22	14	28	18	17	12
Stressland (IV)	38	41	37	42	39	35	36
HC90-196 (dt1)	27	25	19	29	17	17	14
HC91-1770 (dt1)	29	23	18	30	17	18	16
HS93-4118	31	38	28	37	29	26	26
LN91-1695	30	37	29	36	30	27	30
LN91-1733	33	39	31	38	32	28	30
LN92-8605	30	37	28	32	29	25	30
LS92-3660	38	43	38	43	36	33	34
LS92-4173	35	41	36	37	35	33	33
Md92-5850	34	40	32	38	30	30	35
S92-2712 (SCN)	35	43	35	38	36	33	41
SS91-7138	37	40	34	38	34	32	35
SS92-7540	32	38	32	36	31	29	32
SS92-7557	35	37	28	37	31	29	32

UNIFORM TEST IV, 1996

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	28	30	38
KS4694 (L)	31	29	38
Macon (III)	25	23	31
Ripley (dt1)	24	23	24
Stressland (IV)	37	32	41
HC90-196 (dt1)	25	25	25
HC91-1770 (dt1)	24	23	25
HS93-4118	27	26	34
LN91-1695	25	25	32
LN91-1733	25	27	35
LN92-8605	25	23	32
LS92-3660	36	32	39
LS92-4173	31	26	35
Md92-5850	26	28	36
S92-2712 (SCN)	28	28	36
SS91-7138	31	29	36
SS92-7540	26	24	32
SS92-7557	28	26	35

UNIFORM TEST IV, 1996

SEED QUALITY (score)

Strain	Mean 16 Tests	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	1.4		1.0	1.0	1.5	1.6	1.4	1.0
KS4694 (L)	1.3		1.0	1.0	1.2	1.4	1.4	1.0
Macon (III)	1.4		2.0	1.0	1.8	1.3	1.4	1.0
Ripley (dt1)	1.3		1.0	1.0	1.5	1.5	1.6	1.0
Stressland (IV)	1.4		2.0	1.0	1.3	1.4	1.3	1.0
HC90-196 (dt1)	1.5		2.0	1.0	1.5	1.4	1.3	1.0
HC91-1770 (dt1)	1.5		1.0	1.0	1.6	1.7	1.5	1.0
HS93-4118	1.5		1.0	1.0	1.4	1.3	1.5	1.0
LN91-1695	1.3		1.0	1.0	1.3	1.3	1.3	1.0
LN91-1733	1.3		1.0	1.0	1.3	1.2	1.4	1.0
LN92-8605	1.6		1.0	1.0	1.9	1.9	1.4	1.5
LS92-3660	1.5		1.0	2.0	1.4	1.8	1.4	1.0
LS92-4173	1.4		1.0	1.0	1.3	1.5	1.3	1.0
Md92-5850	1.5		2.0	1.0	1.4	1.6	1.5	1.0
S92-2712 (SCN)	1.7		1.0	1.0	2.1	1.7	1.5	1.0
SS91-7138	1.3		1.0	1.0	1.5	1.2	1.4	1.0
SS92-7540	1.5		2.0	1.0	1.5	1.3	1.6	1.0
SS92-7557	1.5		2.0	1.0	1.3	1.2	1.6	1.0

UNIFORM TEST IV, 1996

SEED QUALITY (score)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	1.5	2.0	2.0	1.0	1.0	2.0	2.0
KS4694 (L)	1.0	2.0	2.0	1.0	1.0	1.0	1.0
Macon (III)	1.0	2.0	2.0	1.0	1.0	1.0	2.0
Ripley (dt1)	1.0	2.0	2.0	1.0	1.0	1.0	1.5
Stressland (IV)	1.5	2.0	2.0	1.0	1.0	1.0	1.5
HC90-196 (dt1)	1.5	2.0	2.0	1.0	1.0	1.0	2.0
HC91-1770 (dt1)	1.5	2.0	2.0	1.0	1.0	3.0	1.5
HS93-4118	1.0	2.0	2.0	1.0	1.3	2.0	2.0
LN91-1695	1.5	2.0	2.0	1.0	1.0	1.0	2.0
LN91-1733	1.5	2.0	2.0	1.0	1.0	1.0	1.5
LN92-8605	1.5	3.0	2.0	2.0	1.0	1.0	1.5
LS92-3660	1.0	2.0	2.0	2.0	1.5	1.0	2.0
LS92-4173	1.0	2.0	2.0	1.0	1.0	3.0	2.0
Md92-5850	1.0	2.0	2.0	1.0	1.0	3.0	2.0
S92-2712 (SCN)	1.5	2.0	3.0	1.0	1.5	3.0	2.5
SS91-7138	1.0	1.0	3.0	1.0	1.0	2.0	1.5
SS92-7540	1.0	2.0	2.0	1.0	1.5	2.0	2.0
SS92-7557	1.0	2.0	2.0	1.0	1.0	2.0	2.0

UNIFORM TEST IV, 1996

SEED QUALITY (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	1.0	1.0	1.5
KS4694 (L)	2.0	1.0	2.0
Macon (III)	1.0	1.0	1.3
Ripley (dt1)	1.0	1.0	1.0
Stressland (IV)	1.3	1.0	1.3
HC90-196 (dt1)	2.0	1.0	1.5
HC91-1770 (dt1)	1.7	1.0	1.8
HS93-4118	1.7	1.0	2.0
LN91-1695	1.0	1.0	1.5
LN91-1733	1.3	1.0	2.0
LN92-8605	1.0	1.0	2.5
LS92-3660	1.0	1.0	1.5
LS92-4173	1.0	1.0	1.5
Md92-5850	1.3	1.0	1.3
S92-2712 (SCN)	1.3	1.0	2.0
SS91-7138	1.3	1.0	1.2
SS92-7540	2.0	1.0	1.5
SS92-7557	1.7	1.0	1.5

UNIFORM TEST IV, 1996

SEED SIZE (g/100)

Strain	Mean 16 Tests	George-town DE	Belle-ville IL	Cora IL	Newton IL	Ridg-way IL	Urbana IL	Butler-ville IN
Delsoy 4210 (SCN)	16.4		17.6	15.3	14.4	16.7	16.7	15.4
KS4694 (L)	16.4		16.7	16.1	15.8	17.4	15.9	17.1
Macon (III)	16.1		16.9	15.2	16.8	16.4	17.1	17.5
Ripley (dt1)	12.8		14.6	12.7	12.3	12.6	11.4	13.9
Stressland (IV)	13.6		13.4	12.8	12.3	14.5	13.3	14.1
HC90-196 (dt1)	16.0		16.6	16.3	15.7	15.1	14.5	17.1
HC91-1770 (dt1)	13.4		14.9	13.8	13.1	13.6	12.0	13.8
HS93-4118	15.7		17.1	14.8	14.3	15.4	15.2	15.6
LN91-1695	15.9		15.6	15.6	14.7	16.1	15.9	16.3
LN91-1733	15.3		14.8	14.5	14.0	16.7	15.0	14.6
LN92-8605	15.6		13.4	15.1	14.6	16.9	14.9	15.1
LS92-3660	15.1		16.9	13.5	14.9	16.2	15.3	15.3
LS92-4173	14.9		15.5	15.0	15.1	16.3	15.5	14.9
Md92-5850	13.9		14.3	13.6	11.5	15.5	13.3	14.1
S92-2712 (SCN)	16.5		16.1	16.9	15.4	18.0	16.7	16.5
SS91-7138	14.5		15.0	13.0	14.2	15.1	15.3	15.2
SS92-7540	15.2		15.7	14.8	14.9	16.2	15.4	15.8
SS92-7557	15.7		17.4	14.7	15.5	17.2	15.7	16.0

UNIFORM TEST IV, 1996

SEED SIZE (g/100)

Strain	Lafay-ette IN	Manhat-tan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210 (SCN)	17.5	18.6	18.3	18.8	15.8	14.4	14.0
KS4694 (L)	16.6	17.9	16.1	19.0	17.3	14.3	13.6
Macon (III)	17.5	20.0	17.8	20.3	18.2	----	14.1
Ripley (dt1)	12.7	13.2	12.8	12.5	13.7	12.5	11.3
Stressland (IV)	13.6	15.6	14.4	16.2	13.8	11.7	11.5
HC90-196 (dt1)	15.8	17.9	15.2	18.4	15.7	15.9	15.4
HC91-1770 (dt1)	13.9	13.6	12.8	13.4	16.1	13.1	11.7
HS93-4118	16.7	17.3	17.0	17.4	15.9	13.1	16.4
LN91-1695	17.0	17.9	16.5	17.8	16.6	15.4	13.4
LN91-1733	15.5	17.4	15.1	17.1	17.0	13.7	13.2
LN92-8605	17.2	18.4	17.0	17.2	15.8	14.4	13.3
LS92-3660	15.3	15.9	15.3	17.2	14.8	13.2	13.2
LS92-4173	14.5	14.5	14.7	15.7	13.9	14.9	12.9
Md92-5850	13.2	17.0	15.6	15.8	13.6	12.6	13.4
S92-2712 (SCN)	13.8	19.9	16.2	19.7	16.2	15.5	14.4
SS91-7138	14.7	15.4	15.6	16.4	15.1	13.5	12.4
SS92-7540	15.8	17.1	17.1	15.7	15.4	13.8	12.7
SS92-7557	16.0	17.9	17.2	16.4	15.7	12.8	13.0

UNIFORM TEST IV, 1996

SEED SIZE (g/100)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH
Delsoy 4210 (SCN)	13.7	18.0	17.0
KS4694 (L)	13.7	17.9	17.3
Macon (III)	15.3	15.9	16.7
Ripley (dt1)	11.0	14.7	12.9
Stressland (IV)	12.7	14.3	13.9
HC90-196 (dt1)	13.5	16.1	16.1
HC91-1770 (dt1)	11.3	15.3	12.0
HS93-4118	13.3	17.2	14.5
LN91-1695	13.3	16.5	15.8
LN91-1733	14.0	16.0	15.6
LN92-8605	14.0	16.1	15.8
LS92-3660	13.3	16.1	14.7
LS92-4173	13.7	15.9	15.3
Md92-5850	11.3	13.9	13.6
S92-2712 (SCN)	13.0	16.5	18.4
SS91-7138	12.3	15.3	14.1
SS92-7540	12.3	16.2	15.0
SS92-7557	12.7	16.7	15.9

UNIFORM TEST IV, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY	Mt. Orab OH
Delsoy 4210 (SCN)	41.5	40.4	40.0	44.8	41.4	41.1
KS4694 (L)	41.4	40.4	41.0	43.3	41.4	41.1
Macon (III)	41.2	40.1	41.1	42.8	39.8	42.3
Ripley (dt1)	40.4	40.4	40.0	40.9	39.7	40.9
Stressland (IV)	43.5	43.7	42.5	45.0	43.6	42.5
HC90-196 (dt1)	40.2	40.5	38.4	41.0	39.8	41.5
HC91-1770 (dt1)	41.0	40.2	42.0	41.7	39.2	41.7
HS93-4118	40.0	39.0	39.5	40.1	40.2	41.3
LN91-1695	42.5	42.8	43.4	42.3	41.3	42.8
LN91-1733	42.1	42.0	42.4	42.1	41.5	42.3
LN92-8605	41.2	41.1	41.6	41.9	40.7	40.5
LS92-3660	43.2	43.0	43.1	42.1	43.8	43.9
LS92-4173	40.4	40.7	39.3	41.6	40.8	39.6
Md92-5850	40.6	40.1	39.9	41.3	40.2	41.5
S92-2712 (SCN)	41.2	40.8	40.6	43.3	41.8	39.7
SS91-7138	41.1	41.9	40.2	42.0	39.9	41.7
SS92-7540	41.2	41.4	41.2	43.0	39.7	40.5
SS92-7557	41.3	41.8	40.5	42.2	41.0	40.9

UNIFORM TEST IV, 1996

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY	Mt. Orab OH
Delsoy 4210 (SCN)	20.9	21.5	20.1	20.5	21.1	21.1
KS4694 (L)	20.3	20.9	19.3	21.0	19.9	20.4
Macon (III)	21.4	22.0	20.0	21.7	21.7	21.4
Ripley (dt1)	20.8	20.6	19.7	22.5	20.4	20.8
Stressland (IV)	20.4	20.1	19.6	21.2	20.3	21.0
HC90-196 (dt1)	22.1	22.8	20.9	23.1	22.1	21.8
HC91-1770 (dt1)	20.7	21.2	18.9	21.6	20.9	21.0
HS93-4118	20.7	21.5	19.5	21.2	20.4	20.8
LN91-1695	21.2	21.6	19.5	21.6	21.8	21.5
LN91-1733	21.5	22.4	19.9	22.3	21.2	21.6
LN92-8605	20.5	20.9	19.3	20.7	20.3	21.3
LS92-3660	19.6	20.1	18.0	20.2	19.7	19.8
LS92-4173	19.9	20.4	18.2	20.4	20.0	20.6
Md92-5850	22.1	22.4	20.5	23.1	22.1	22.3
S92-2712 (SCN)	20.7	21.5	19.1	20.6	20.9	21.5
SS91-7138	21.2	21.3	20.4	21.6	21.5	21.2
SS92-7540	21.3	21.7	20.2	21.6	21.6	21.2
SS92-7557	20.9	20.6	20.0	21.6	20.6	21.7

PRELIMINARY TEST IVA, 1996

	Strain	Parentage	Generation Composited	Unique Traits
1.	KS4694 (L)	Sherman x Toano	F5	
2.	Macon (III)	Sherman x Resnik	F5	
3.	Stressland (IV)	HC80-1946 x Asgrow A3127	F5	
4.	HC90-2517	Sprite 87 x Resnik	F5	Dt1
5.	HC90-3305	Resnik x Pixie BC	F5	Dt1
6.	HC91-3583	Resnik x Essex	F5	Dt1
7.	HC91-3825	Hutcheson x Resnik	F5	Dt1
8.	HC92-1616	HC83-4532 x Flyer	F5	Dt1
9.	HC92-1626	HC83-4532 x Flyer	F5	Dt1
10.	HC92-1701	HC83-4532 x Flyer	F5	Dt1
11.	HC92-1710	HC85-4532 x Flyer	F5	Dt1
12.	HC92-1856	HC84-4851 x Resnik	F5	Dt1
13.	HC92-1857	HC84-4851 x Resnik	F5	Dt1
14.	HC92-1873	Resnik x HC85-5167	F5	Dt1
15.	HC92-1908	HC82-368 x Amcor 89	F5	Dt1
16.	LG91-7350	BSR 101 x LG82-8379	F6	
17.	LN89-3502TP	Hobbit 87 x Asgrow A3205	F5	
18.	LN92-9082	C1747 x K1148	F5	
19.	LN93-1859	Burlison x Asgrow A3733	F5	
20.	LN93-8238	Hamilton x Asgrow A3733	F5	
21.	LN93-8428	Hamilton x Asgrow A3733	F5	
22.	LN93-11688	A86-301024 x Asgrow A3733	F5	
23.	K1352	Corsica x Edison	F5	
24.	K1353	Asgrow A4595 x R85-3280	F5	
25.	K1354	Hamilton x P6906-22	F5	
26.	K1355	Flyer x Edison	F5	
27.	K1356	Delsoy 4500 x Flyer	F5	
28.	K1357	Hamilton x Flyer	F5	
29.	K1358	P6917-29 x P6906-22	F5	
30.	K1359	Edison x HC85-164	F5	
31.	Ky93-0729	Asgrow A4595 x Md83-5198	F5	
32.	Md93-5010	Md87-5602 x LS85-5031	F5	
33.	Md93-5488	S85-1156-2 x Bass	F5	

PRELIMINARY TEST IVA, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	PSB n %
KS4694 (L)	WGTDYBfI	1	S	0	36	4
Macon (III)	WTBDYBlI	1	R	0	78	10
Stressland (IV)	PTTDYBlI	1	S	0	16	0
HC90-2517	P+WTTSYBlI	1	R	0	44	0
HC90-3305	PTTSYBlI	1	R	0	38	0
HC91-3583	PTTDYBlI	1	R	0	32	0
HC91-3825	PTTDYBlI	1	R	0	50	0
HC92-1616	WTTDYBlI	1	S	0	38	4
HC92-1626	WTTSYBlI	1	S	0	34	0
HC92-1701	WTTDYBlI	1	S	0	36	0
HC92-1710	WTTIYBlI	1	S	0	18	0
HC92-1856	WTTDYBlI	1	H	0	50	4
HC92-1857	WTTDYBlI	1	R	0	40	0
HC92-1873	PTBIYBlI	1	H	0	40	2
HC92-1908	PGBSYHI	1	R	0	56	0
LG91-7350	PG+TDYHI	1	H	0	40	0
LN89-3502TP	PTBSYBlI	1	R	0	22	0
LN92-9082	WTB+TDYBlI	1	R	0	50	2
LN93-1859	PTTDYBlI	1	S	0	68	4
LN93-8238	WTTSYBlI	1	S	2	56	2
LN93-8428	WGTSYBfI	1	S	0	58	2
LN93-11688	PTBDYBlI	1	S	0	50	0
K1352	PTTDDYBrI	1	R	0	12	0
K1353	P+WTTDYBlI	1	R	0	26	2
K1354	WGTDYBfI	1	R	0	62	2
K1355	PTTDYBlI	1	R	0	46	0
K1356	PGTDYIbI	1	R	0	48	0
K1357	WGTDYBfI	1	H	0	48	0
K1358	WTTDYBlI	1	R	0	54	0
K1359	PTTIYBrI	1	S	0	70	0
Ky93-0729	WTTDYBlI	1	S	0	16	2
Md93-5010	WTTSYBrI	1	R	0	6	0
Md93-5488	WTBSYBlI	1	S	0	32	0

PRELIMINARY TEST IVA, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
KS4694 (L)	51.6	4	5.4	1.7	33	1.5	16.3	39.3	20.9
Macon (III)	48.1	25	-5.6	1.2	29	1.5	17.4	39.2	21.9
Stressland (IV)	55.0	1	10/03	1.5	34	1.2	14.0	40.6	21.7
HC90-2517	51.1	7	-3.9	1.5	33	1.2	16.2	41.0	22.3
HC90-3305	48.7	23	-0.4	1.5	36	1.4	15.4	40.0	22.2
HC91-3583	47.7	26	-4.7	1.6	33	1.4	13.6	40.8	21.9
HC91-3825	47.5	27	-4.6	2.1	37	1.2	16.3	40.1	21.4
HC92-1616	50.3	14	-4.4	1.3	29	1.5	17.0	39.4	22.2
HC92-1626	51.4	6	-3.0	1.4	30	1.4	15.7	39.5	22.2
HC92-1701	49.9	18	-4.2	1.4	30	1.4	17.5	39.8	22.3
HC92-1710	47.3	30	-4.6	1.6	31	1.4	15.0	39.6	22.1
HC92-1856	50.5	12	-4.6	1.2	32	1.4	15.6	39.9	21.9
HC92-1857	50.5	12	-2.0	1.3	35	1.2	15.0	39.2	22.2
HC92-1873	44.9	33	-5.8	2.2	40	1.5	15.1	39.1	22.0
HC92-1908	47.4	28	-2.9	2.4	35	1.8	14.9	38.4	22.6
LG91-7350	47.4	28	-4.1	1.6	31	1.4	15.5	38.4	22.1
LN89-3502TP	47.0	32	0.7	1.9	34	1.3	14.8	39.2	22.0
LN92-9082	50.6	11	0.8	1.2	32	1.4	15.2	40.0	21.3
LN93-1859	48.8	22	-1.2	1.2	30	1.3	15.4	40.3	21.5
LN93-8238	50.7	9	-2.0	1.6	30	1.4	17.7	40.7	22.3
LN93-8428	47.3	30	-3.0	1.4	29	1.6	17.2	40.0	22.2
LN93-11688	49.2	21	-2.2	1.3	34	1.4	16.5	40.8	21.3
K1352	49.3	20	-0.9	1.8	32	1.4	15.0	40.8	20.6
K1353	52.9	2	0.2	1.3	34	1.6	15.5	39.7	20.4
K1354	48.4	24	-0.3	1.3	32	1.6	15.8	40.3	21.5
K1355	51.1	7	-1.3	1.2	33	1.3	14.5	40.5	21.4
K1356	51.6	4	-1.2	1.1	31	1.4	14.1	41.0	21.1
K1357	50.7	9	1.7	1.3	31	1.4	15.4	40.4	21.9
K1358	49.8	19	-0.3	1.4	34	1.4	15.4	39.6	21.9
K1359	50.3	14	-5.1	1.4	31	1.6	14.1	39.8	22.1
Ky93-0729	50.3	14	3.4	1.7	36	1.6	13.8	39.6	20.8
Md93-5010	52.7	3	1.8	1.7	31	1.6	14.3	38.6	20.8
Md93-5488	50.3	14	2.0	1.9	35	1.3	16.5	40.4	21.4

125.4 Days After Planting

PRELIMINARY TEST IVA, 1996

YIELD (bu/a)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	51.6	53.4	34.1	39.3	68.3	61.1
Macon (III)	48.1	45.0	33.9	32.3	64.3	59.4
Stressland (IV)	55.0	53.0	38.5	48.3	69.5	62.6
HC90-2517	51.1	46.7	35.1	39.7	66.6	61.8
HC90-3305	48.7	38.5	35.7	51.7	63.7	59.5
HC91-3583	47.7	45.2	30.3	39.8	70.5	55.4
HC91-3825	47.5	38.2	32.8	39.1	63.7	51.7
HC92-1616	50.3	44.6	33.2	37.8	67.3	62.6
HC92-1626	51.4	47.8	33.8	42.8	73.0	60.6
HC92-1701	49.9	36.3	39.1	36.0	71.1	60.9
HC92-1710	47.3	30.7	30.3	36.6	69.8	57.1
HC92-1856	50.5	41.4	39.6	49.3	67.3	55.8
HC92-1857	50.5	49.6	28.2	43.0	65.8	62.9
HC92-1873	44.9	41.7	31.6	41.3	56.0	49.9
HC92-1908	47.4	33.9	30.1	38.9	66.8	50.1
LG91-7350	47.4	48.2	31.4	38.8	60.8	53.8
LN89-3502TP	47.0	43.3	32.0	35.2	64.8	53.8
LN92-9082	50.6	49.4	27.3	41.7	70.2	63.5
LN93-1859	48.8	38.6	22.1	31.0	69.0	66.2
LN93-8238	50.7	55.3	28.3	30.3	71.1	64.2
LN93-8428	47.3	39.0	27.1	41.1	66.1	60.9
LN93-11688	49.2	42.3	38.0	38.0	64.5	56.8
K1352	49.3	45.0	32.2	49.1	68.5	58.3
K1353	52.9	54.8	32.2	49.8	68.3	58.9
K1354	48.4	35.0	33.9	42.2	68.1	62.9
K1355	51.1	48.6	26.3	50.6	68.1	64.5
K1356	51.6	52.1	37.8	39.5	66.8	57.2
K1357	50.7	44.5	29.5	45.2	70.4	63.1
K1358	49.8	48.7	31.7	39.1	62.5	60.5
K1359	50.3	47.4	21.3	39.8	66.9	68.3
Ky93-0729	50.3	44.6	26.0	50.6	70.5	54.3
Md93-5010	52.7	53.8	63.6	41.3	67.6	50.0
Md93-5488	50.3	52.5	56.7	36.7	64.7	55.8
C.V. (%)		16.9	17.3	13.0	3.6	6.1
L.S.D. (5%)		15.6	11.8	10.8	4.1	6.1
Row Sp. (In.)		30	30	26	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IVA, 1996

YIELD (bu/a)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	51.9	43.3	50.9	61.8
Macon (III)	53.1	39.3	34.2	71.0
Stressland (IV)	55.0	47.1	45.0	76.3
HC90-2517	49.5	47.3	38.1	75.2
HC90-3305	47.6	42.1	33.8	65.4
HC91-3583	44.8	41.5	38.7	63.5
HC91-3825	48.4	49.6	35.3	68.5
HC92-1616	52.0	46.3	36.8	72.5
HC92-1626	52.0	47.4	35.1	69.8
HC92-1701	48.2	45.7	40.1	72.1
HC92-1710	50.4	45.9	38.5	66.1
HC92-1856	54.0	46.7	33.2	67.3
HC92-1857	51.7	44.9	40.3	67.7
HC92-1873	42.0	42.2	34.5	64.7
HC92-1908	53.1	42.1	42.3	69.0
LG91-7350	46.1	41.1	38.3	68.3
LN89-3502TP	45.2	40.2	35.5	72.8
LN92-9082	54.8	41.4	37.0	70.5
LN93-1859	55.8	43.8	47.5	65.3
LN93-8238	55.1	44.1	37.6	70.6
LN93-8428	52.9	41.1	33.4	64.5
LN93-11688	49.2	46.2	37.9	69.9
K1352	50.2	40.5	33.7	66.0
K1353	49.6	51.0	48.2	62.9
K1354	48.4	45.3	37.4	62.6
K1355	52.9	39.3	41.3	68.3
K1356	50.5	44.7	46.0	69.7
K1357	51.3	43.6	36.4	72.3
K1358	51.7	45.4	39.7	68.9
K1359	48.4	59.0	29.5	72.4
Ky93-0729	52.7	49.0	38.2	66.8
Md93-5010	50.0	41.5	40.4	65.9
Md93-5488	44.2	39.8	40.3	61.9
C.V. (%)	7.1	12.8	15.5	6.7
L.S.D. (5%)	7.3	11.6	12.0	9.3
Row Sp. (In.)	30	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVA, 1996

YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	4	4	10	20	12	12
Macon (III)	25	17	11	30	28	18
Stressland (IV)	1	5	5	7	9	9
HC90-2517	7	15	9	18	22	11
HC90-3305	23	28	8	1	29	17
HC91-3583	26	16	22	16	4	26
HC91-3825	27	29	15	21	29	30
HC92-1616	14	19	14	25	17	9
HC92-1626	6	13	13	10	1	15
HC92-1701	18	30	4	28	2	13
HC92-1710	30	33	22	27	8	22
HC92-1856	12	25	3	5	17	24
HC92-1857	12	8	27	9	24	7
HC92-1873	33	24	20	13	33	33
HC92-1908	28	32	24	23	20	31
LG91-7350	28	12	21	33	32	28
LN89-3502TP	32	22	18	29	25	28
LN92-9082	11	9	28	12	7	5
LN93-1859	22	27	32	31	10	2
LN93-8238	9	1	26	32	2	4
LN93-8428	30	26	29	15	23	13
LN93-11688	21	23	6	24	27	23
K1352	20	17	16	6	11	20
K1353	2	2	16	4	12	19
K1354	24	31	11	11	14	7
K1355	7	11	30	2	14	3
K1356	4	7	7	19	20	21
K1357	9	21	25	8	6	6
K1358	19	10	19	21	31	16
K1359	14	14	33	16	19	1
Ky93-0729	14	19	31	2	4	27
Md93-5010	3	3	1	13	16	32
Md93-5488	14	6	2	26	26	24

PRELIMINARY TEST IVA, 1996

YIELD RANK

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	13	20	1	33
Macon (III)	6	32	28	8
Stressland (IV)	3	7	5	1
HC90-2517	22	6	17	2
HC90-3305	28	22	29	25
HC91-3583	31	24	13	29
HC91-3825	24	3	25	16
HC92-1616	11	9	22	4
HC92-1626	11	5	26	12
HC92-1701	27	12	11	7
HC92-1710	18	11	14	22
HC92-1856	5	8	32	20
HC92-1857	14	15	9	19
HC92-1873	33	21	27	27
HC92-1908	6	22	6	14
LG91-7350	29	27	15	17
LN89-3502TP	30	30	24	3
LN92-9082	4	26	21	10
LN93-1859	1	18	3	26
LN93-8238	2	17	19	9
LN93-8428	8	27	31	28
LN93-11688	23	10	18	11
K1352	19	29	30	23
K1353	21	2	2	30
K1354	24	14	20	31
K1355	8	32	7	17
K1356	17	16	4	13
K1357	16	19	23	6
K1358	14	13	12	15
K1359	24	1	33	5
Ky93-0729	10	4	16	21
Md93-5010	20	24	8	24
Md93-5488	32	31	9	32

PRELIMINARY TEST IVA, 1996

MATURITY (date)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	5.4	2	8	3	6	9
Macon (III)	-5.6	-5	-3	-2	-8	-7
Stressland (IV)	10/03	10/03	09/28	10/16	10/03	09/24
HC90-2517	-3.9	-6	-3	3	-7	-2
HC90-3305	-0.4	-3	-1	1	2	2
HC91-3583	-4.7	-6	-5	-1	-6	-1
HC91-3825	-4.6	-6	-4	-1	-8	-1
HC92-1616	-4.4	-7	-4	0	-4	-1
HC92-1626	-3.0	0	-3	0	-4	-4
HC92-1701	-4.2	-5	-5	0	-5	0
HC92-1710	-4.6	-8	-3	-1	-5	-4
HC92-1856	-4.6	-7	-3	0	-6	-4
HC92-1857	-2.0	-2	-3	1	-4	1
HC92-1873	-5.8	-7	-6	-2	-10	-2
HC92-1908	-2.9	-6	-5	-3	1	5
LG91-7350	-4.1	-5	-6	-1	-4	1
LN89-3502TP	0.7	-1	-1	4	-1	5
LN92-9082	0.8	-1	0	5	-1	3
LN93-1859	-1.2	0	-2	1	-2	-1
LN93-8238	-2.0	1	-4	0	-1	-1
LN93-8428	-3.0	1	-2	0	-2	0
LN93-11688	-2.2	-1	-1	0	-6	-4
K1352	-0.9	0	-2	0	1	3
K1353	0.2	1	0	1	1	1
K1354	-0.3	-1	0	2	2	2
K1355	-1.3	-3	-1	1	-3	0
K1356	-1.2	-1	0	0	-4	1
K1357	1.7	-1	-1	5	2	7
K1358	-0.3	-1	-2	0	1	2
K1359	-5.1	-6	-7	-1	-4	-4
Ky93-0729	3.4	1	1	3	4	6
Md93-5010	1.8	1	9	1	1	3
Md93-5488	2.0	1	8	1	2	3
Date Planted	05/31	05/29	05/22	06/27	05/21	05/22
Days to Mature	125.4	127	129	111	135	125

PRELIMINARY TEST IVA, 1996

MATURITY (date)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	6	3	5	7
Macon (III)	-3	-6	-8	-8
Stressland (IV)	10/04	09/24	10/11	10/08
HC90-2517	-1	-7	-7	-5
HC90-3305	-1	0	-2	-2
HC91-3583	-3	-9	-5	-6
HC91-3825	-3	-9	-4	-5
HC92-1616	-3	-6	-7	-8
HC92-1626	-3	-6	-2	-5
HC92-1701	-3	-6	-7	-7
HC92-1710	-2	-6	-4	-8
HC92-1856	-3	-5	-7	-6
HC92-1857	-3	0	-2	-6
HC92-1873	-4	-7	-8	-6
HC92-1908	1	-2	-11	-6
LG91-7350	-7	-6	-3	-6
LN89-3502TP	-1	0	-1	2
LN92-9082	-1	1	3	-2
LN93-1859	-1	-3	1	-4
LN93-8238	-1	-4	-5	-3
LN93-8428	-3	-6	-8	-7
LN93-11688	-1	-5	2	-4
K1352	-3	-4	0	-3
K1353	0	0	1	-3
K1354	-1	0	-2	-5
K1355	-2	0	0	-4
K1356	-2	1	0	-6
K1357	2	1	2	-2
K1358	-2	0	1	-2
K1359	-3	-6	-9	-6
Ky93-0729	-1	5	5	7
Md93-5010	-2	1	3	-1
Md93-5488	0	0	2	1
Date Planted	06/07	05/20	06/18	05/20
Days to Mature	119	127	115	141

PRELIMINARY TEST IVA, 1996

LODGING (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	1.7	1.0	1.1	1.0	2.0	2.8
Macon (III)	1.2	1.0	1.0	1.0	1.0	1.3
Stressland (IV)	1.5	1.0	1.0	1.0	1.0	2.0
HC90-2517	1.5	1.0	1.0	1.0	2.0	1.5
HC90-3305	1.5	1.0	1.0	1.0	2.0	1.5
HC91-3583	1.6	1.0	1.0	1.0	1.5	2.0
HC91-3825	2.1	1.0	1.3	1.0	2.0	3.3
HC92-1616	1.3	1.0	1.0	1.0	1.0	1.0
HC92-1626	1.4	1.0	1.0	1.0	1.0	1.3
HC92-1701	1.4	1.0	1.0	1.0	1.0	1.3
HC92-1710	1.6	1.0	1.0	1.0	2.0	1.3
HC92-1856	1.2	1.0	1.0	1.0	1.0	1.0
HC92-1857	1.3	1.0	1.0	1.0	1.0	1.0
HC92-1873	2.2	1.0	1.0	1.3	3.0	3.0
HC92-1908	2.4	1.0	1.0	1.0	3.0	4.0
LG91-7350	1.6	1.0	1.0	1.0	2.5	2.3
LN89-3502TP	1.9	1.0	1.0	1.0	2.0	3.0
LN92-9082	1.2	1.0	1.0	1.0	1.5	1.0
LN93-1859	1.2	1.0	1.0	1.0	1.0	1.0
LN93-8238	1.6	1.0	1.0	1.0	1.5	1.5
LN93-8428	1.4	1.0	1.0	1.0	2.0	1.0
LN93-11688	1.3	1.0	1.0	1.0	1.0	1.0
K1352	1.8	1.0	1.0	1.0	2.0	2.8
K1353	1.3	1.0	1.0	1.0	1.0	1.5
K1354	1.3	1.0	1.0	1.0	1.5	1.5
K1355	1.2	1.0	1.0	1.0	1.0	1.0
K1356	1.1	1.0	1.0	1.0	1.0	1.0
K1357	1.3	1.0	1.0	1.0	1.0	1.5
K1358	1.4	1.0	1.0	1.0	1.0	2.0
K1359	1.4	1.0	1.0	1.0	1.5	1.0
Ky93-0729	1.7	1.0	1.0	1.0	2.0	2.8
Md93-5010	1.7	1.0	3.0	1.0	1.0	3.8
Md93-5488	1.9	1.0	1.5	1.0	3.0	2.3

PRELIMINARY TEST IVA, 1996

LODGING (score)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	2.5	1.5	1.0	2.3
Macon (III)	2.5	1.0	1.0	1.0
Stressland (IV)	3.0	1.5	1.1	2.0
HC90-2517	3.0	1.0	1.0	2.3
HC90-3305	2.8	1.5	1.0	1.8
HC91-3583	3.0	2.0	1.0	2.0
HC91-3825	3.5	2.5	1.2	2.8
HC92-1616	3.0	1.0	1.0	1.3
HC92-1626	3.0	1.5	1.0	1.8
HC92-1701	3.0	1.0	1.0	2.0
HC92-1710	3.0	2.0	1.0	1.8
HC92-1856	2.8	1.0	1.0	1.3
HC92-1857	2.5	1.5	1.0	1.8
HC92-1873	3.5	2.8	1.0	3.5
HC92-1908	3.5	3.0	1.0	3.8
LG91-7350	3.0	1.0	1.0	1.5
LN89-3502TP	3.5	1.0	1.0	3.3
LN92-9082	2.5	1.0	1.0	1.0
LN93-1859	2.5	1.0	1.1	1.3
LN93-8238	3.3	1.5	1.0	2.3
LN93-8428	2.5	1.0	1.0	2.0
LN93-11688	2.8	1.0	1.0	1.8
K1352	3.0	2.0	1.0	2.0
K1353	2.5	1.0	1.0	2.0
K1354	2.8	1.0	1.0	1.3
K1355	2.8	1.0	1.1	1.0
K1356	2.0	1.0	1.0	1.0
K1357	2.5	1.0	1.0	2.0
K1358	2.5	1.0	1.1	1.8
K1359	2.3	1.0	1.0	2.5
Ky93-0729	2.3	1.0	1.1	2.8
Md93-5010	2.5	1.0	1.1	1.3
Md93-5488	3.0	1.0	1.1	2.8

PRELIMINARY TEST IVA, 1996

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	33	31	29	24	43	45
Macon (III)	29	25	29	25	38	34
Stressland (IV)	34	34	31	29	45	41
HC90-2517	33	31	33	29	44	35
HC90-3305	36	32	36	32	48	43
HC91-3583	33	32	32	26	43	38
HC91-3825	37	35	34	29	45	44
HC92-1616	29	27	28	25	39	33
HC92-1626	30	29	31	24	39	35
HC92-1701	30	26	32	24	40	30
HC92-1710	31	29	30	24	44	34
HC92-1856	32	29	29	29	41	37
HC92-1857	35	33	38	29	41	36
HC92-1873	40	40	37	35	47	51
HC92-1908	35	29	34	23	39	41
LG91-7350	31	30	31	20	39	41
LN89-3502TP	34	31	36	25	45	40
LN92-9082	32	31	28	26	42	39
LN93-1859	30	26	26	23	40	40
LN93-8238	30	32	29	20	41	34
LN93-8428	29	28	27	23	40	31
LN93-11688	34	29	34	26	44	38
K1352	32	30	31	26	44	41
K1353	34	35	30	27	43	38
K1354	32	27	31	22	43	40
K1355	33	30	31	27	41	40
K1356	31	30	29	27	42	36
K1357	31	30	25	27	44	37
K1358	34	34	31	27	45	42
K1359	31	31	25	26	41	40
Ky93-0729	36	33	27	30	48	49
Md93-5010	31	28	34	24	41	37
Md93-5488	35	34	37	25	37	45

PRELIMINARY TEST IVA, 1996

PLANT HEIGHT (inches)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	35	30	25	37
Macon (III)	30	27	19	30
Stressland (IV)	34	27	28	41
HC90-2517	33	31	25	37
HC90-3305	37	35	24	40
HC91-3583	29	33	25	35
HC91-3825	36	40	29	38
HC92-1616	29	28	22	33
HC92-1626	30	31	23	31
HC92-1701	30	29	23	36
HC92-1710	29	31	24	32
HC92-1856	32	31	26	35
HC92-1857	36	35	27	37
HC92-1873	38	39	31	41
HC92-1908	41	38	27	40
LG91-7350	31	30	22	38
LN89-3502TP	35	35	24	36
LN92-9082	31	31	22	34
LN93-1859	31	25	25	35
LN93-8238	31	28	23	33
LN93-8428	30	28	20	31
LN93-11688	35	34	24	38
K1352	31	29	21	34
K1353	33	34	27	35
K1354	33	29	22	37
K1355	34	31	25	36
K1356	31	31	23	33
K1357	32	31	20	37
K1358	32	34	26	36
K1359	30	30	22	33
Ky93-0729	33	37	27	41
Md93-5010	30	31	25	33
Md93-5488	36	32	28	40

PRELIMINARY TEST IVA, 1996

SEED QUALITY (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	1.5	1.0	1.4	1.0	3.0	1.0
Macon (III)	1.5	3.0	1.4	1.0	2.0	1.0
Stressland (IV)	1.2	1.0	1.4	1.0	2.0	1.0
HC90-2517	1.2	2.0	1.4	1.0	1.0	1.0
HC90-3305	1.4	1.0	1.4	1.0	2.0	2.0
HC91-3583	1.4	1.0	1.4	1.0	2.0	2.0
HC91-3825	1.2	1.0	1.2	1.0	1.0	1.0
HC92-1616	1.5	2.0	1.4	1.0	2.0	2.0
HC92-1626	1.4	1.0	1.4	1.0	2.0	2.0
HC92-1701	1.4	2.0	1.4	1.0	2.0	1.0
HC92-1710	1.4	2.0	1.2	1.0	2.0	1.0
HC92-1856	1.4	1.0	1.5	1.0	2.0	3.0
HC92-1857	1.2	1.0	1.4	1.0	2.0	1.0
HC92-1873	1.5	2.0	1.4	1.0	3.0	1.0
HC92-1908	1.8	3.0	1.4	1.0	3.0	2.0
LG91-7350	1.4	1.0	1.2	1.0	2.0	1.0
LN89-3502TP	1.3	1.0	1.2	1.0	2.0	1.0
LN92-9082	1.4	1.0	1.2	1.0	2.0	1.0
LN93-1859	1.3	1.0	1.5	1.0	2.0	2.0
LN93-8238	1.4	2.0	1.4	1.0	2.0	1.0
LN93-8428	1.6	3.0	1.5	1.0	2.0	1.0
LN93-11688	1.4	1.0	1.4	1.0	3.0	1.0
K1352	1.4	1.0	1.4	1.0	2.0	1.0
K1353	1.6	2.0	1.5	1.0	3.0	1.0
K1354	1.6	3.0	1.5	1.0	2.0	1.0
K1355	1.3	1.0	1.4	1.0	1.0	2.0
K1356	1.4	1.0	1.2	1.0	2.0	1.0
K1357	1.4	2.0	1.5	1.0	2.0	1.0
K1358	1.4	1.0	1.4	1.0	2.0	1.0
K1359	1.6	2.0	1.5	1.0	2.0	2.0
Ky93-0729	1.6	1.0	1.4	1.0	2.0	1.0
Md93-5010	1.6	1.0	1.2	1.0	2.0	2.0
Md93-5488	1.3	1.0	1.5	1.0	2.0	1.0

PRELIMINARY TEST IVA, 1996

SEED QUALITY (score)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	1.3	1.0	1.0	2.5
Macon (III)	1.0	1.0	1.0	2.0
Stressland (IV)	1.0	1.0	1.0	1.8
HC90-2517	1.0	1.0	1.0	1.5
HC90-3305	1.3	1.0	1.0	2.0
HC91-3583	1.0	1.0	1.0	1.8
HC91-3825	1.3	1.0	1.0	2.0
HC92-1616	1.5	1.0	1.0	1.2
HC92-1626	1.0	1.0	1.0	1.8
HC92-1701	1.5	1.0	1.0	1.5
HC92-1710	1.3	2.0	1.0	1.5
HC92-1856	1.3	1.0	1.0	1.0
HC92-1857	1.0	1.0	1.0	1.5
HC92-1873	1.5	1.0	1.0	1.5
HC92-1908	1.0	2.0	1.0	2.0
LG91-7350	1.5	2.0	1.0	2.0
LN89-3502TP	1.0	2.0	1.0	1.5
LN92-9082	1.3	2.0	1.0	2.0
LN93-1859	1.0	1.0	1.0	1.2
LN93-8238	1.0	1.0	1.0	2.3
LN93-8428	1.3	2.0	1.0	1.3
LN93-11688	1.3	1.0	1.0	2.0
K1352	1.3	2.0	1.0	1.5
K1353	1.0	2.0	1.0	2.0
K1354	1.0	2.0	1.0	2.0
K1355	1.0	1.0	1.0	2.0
K1356	1.0	2.0	1.0	2.0
K1357	1.0	2.0	1.0	1.5
K1358	1.3	2.0	1.0	2.0
K1359	1.3	1.0	1.0	2.3
Ky93-0729	1.0	3.0	1.0	3.0
Md93-5010	1.0	2.0	1.0	3.0
Md93-5488	1.0	1.0	1.0	2.5

PRELIMINARY TEST IVA, 1996

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	16.3	17.7	15.1	16.5	17.8	15.2
Macon (III)	17.4	21.1	16.8	16.8	18.6	16.8
Stressland (IV)	14.0	14.5	13.3	13.1	14.1	14.3
HC90-2517	16.2	18.4	16.7	16.1	18.2	17.0
HC90-3305	15.4	15.4	15.6	15.5	17.6	14.0
HC91-3583	13.6	16.1	13.4	14.6	15.4	11.4
HC91-3825	16.3	17.9	16.7	16.5	17.8	15.1
HC92-1616	17.0	19.1	17.5	17.5	17.9	16.3
HC92-1626	15.7	16.4	15.4	15.7	18.5	15.3
HC92-1701	17.5	18.7	17.6	16.3	18.8	18.4
HC92-1710	15.0	14.7	15.2	15.0	17.2	15.1
HC92-1856	15.6	17.3	16.3	15.8	17.2	14.6
HC92-1857	15.0	17.0	15.7	14.4	16.3	14.6
HC92-1873	15.1	17.3	15.5	15.0	16.1	14.9
HC92-1908	14.9	16.8	15.2	16.3	16.3	14.7
LG91-7350	15.5	17.5	15.6	14.8	17.3	15.1
LN89-3502TP	14.8	17.5	14.7	14.9	15.4	13.3
LN92-9082	15.2	16.8	14.5	15.6	16.1	14.2
LN93-1859	15.4	16.3	14.5	14.9	17.5	14.5
LN93-8238	17.7	19.8	19.0	17.3	18.4	16.0
LN93-8428	17.2	20.1	17.4	18.1	19.0	17.4
LN93-11688	16.5	17.6	17.4	15.0	17.2	14.6
K1352	15.0	16.2	14.2	15.8	16.4	14.6
K1353	15.5	16.6	14.8	15.7	16.8	13.9
K1354	15.8	16.8	15.8	16.3	17.7	15.6
K1355	14.5	15.4	13.7	15.1	16.3	14.6
K1356	14.1	15.9	13.2	13.4	14.9	13.3
K1357	15.4	16.0	15.2	15.8	17.0	16.2
K1358	15.4	16.9	15.8	14.7	17.1	14.5
K1359	14.1	16.0	13.1	14.7	16.9	13.4
Ky93-0729	13.8	14.6	13.8	14.5	15.2	12.0
Md93-5010	14.3	16.9	15.4	13.3	15.0	12.5
Md93-5488	16.5	18.1	17.4	14.4	18.3	15.4

PRELIMINARY TEST IVA, 1996

SEED SIZE (g/100)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	15.2	15.3	17.6	16.5
Macon (III)	17.5	15.6	15.5	18.2
Stressland (IV)	13.6	15.6	13.8	13.7
HC90-2517	15.4	14.1	14.6	15.5
HC90-3305	15.5	13.3	15.1	16.2
HC91-3583	13.9	11.9	12.7	13.3
HC91-3825	16.3	13.9	16.0	16.7
HC92-1616	16.5	15.8	15.9	16.9
HC92-1626	16.8	12.3	15.8	15.1
HC92-1701	16.5	17.3	16.8	17.1
HC92-1710	14.6	13.3	15.8	14.3
HC92-1856	16.0	13.8	14.3	15.5
HC92-1857	14.8	13.0	14.6	14.8
HC92-1873	14.2	13.6	13.9	15.1
HC92-1908	14.9	13.0	13.2	14.1
LG91-7350	14.2	14.9	14.6	15.8
LN89-3502TP	13.4	13.0	16.0	14.7
LN92-9082	14.8	14.1	15.9	14.6
LN93-1859	15.1	14.2	16.4	15.0
LN93-8238	17.9	16.9	16.1	17.9
LN93-8428	16.7	14.9	16.3	15.3
LN93-11688	16.5	15.5	17.2	17.3
K1352	14.3	12.5	15.6	15.7
K1353	15.1	15.4	16.1	15.3
K1354	14.9	14.6	15.4	15.2
K1355	14.6	11.8	15.0	14.3
K1356	14.5	12.5	14.8	14.6
K1357	15.2	12.8	14.6	16.2
K1358	14.2	14.0	15.7	15.4
K1359	13.6	12.9	12.5	14.0
Ky93-0729	12.8	12.6	15.0	13.5
Md93-5010	14.0	12.8	14.5	14.0
Md93-5488	15.3	----	15.5	17.4

PRELIMINARY TEST IVA, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY	Mt. Orab OH
KS4694 (L)	39.3	40.3	37.9	43.9	34.1	40.4
Macon (III)	39.2	41.1	38.3	41.4	34.7	40.3
Stressland (IV)	40.6	43.5	37.8	44.0	36.5	41.4
HC90-2517	41.0	42.7	39.4	43.4	36.7	42.8
HC90-3305	40.0	42.1	38.5	43.4	34.4	41.7
HC91-3583	40.8	43.7	40.4	43.9	32.8	43.3
HC91-3825	40.1	41.2	39.2	41.9	36.6	41.7
HC92-1616	39.4	41.4	38.9	41.9	34.3	40.6
HC92-1626	39.5	40.3	37.5	42.3	36.6	40.6
HC92-1701	39.8	39.4	37.4	42.2	38.4	41.5
HC92-1710	39.6	42.0	37.9	42.1	35.2	40.8
HC92-1856	39.9	41.6	40.2	42.5	34.9	40.4
HC92-1857	39.2	41.5	37.9	41.4	35.5	39.6
HC92-1873	39.1	37.9	39.3	41.2	35.6	41.4
HC92-1908	38.4	36.3	38.1	41.5	37.2	38.7
LG91-7350	38.4	39.3	37.0	41.4	33.1	41.0
LN89-3502TP	39.2	40.9	38.0	41.6	34.2	41.5
LN92-9082	40.0	42.8	39.2	42.3	34.8	40.8
LN93-1859	40.3	41.5	38.5	43.6	36.2	41.5
LN93-8238	40.7	42.6	38.7	43.6	37.3	41.5
LN93-8428	40.0	40.7	38.7	43.0	37.6	40.0
LN93-11688	40.8	42.8	39.8	43.0	35.8	42.6
K1352	40.8	42.6	39.7	42.2	37.8	41.5
K1353	39.7	41.7	38.1	43.5	34.5	40.8
K1354	40.3	41.9	41.1	43.3	34.4	40.8
K1355	40.5	42.1	40.5	42.6	35.1	42.1
K1356	41.0	42.8	38.2	43.6	38.8	41.8
K1357	40.4	43.0	39.0	43.1	36.8	40.2
K1358	39.6	41.6	37.9	42.9	34.6	41.1
K1359	39.8	42.3	38.6	42.0	33.7	42.3
Ky93-0729	39.6	40.3	38.9	41.8	36.1	40.7
Md93-5010	38.6	42.1	37.6	42.3	31.0	40.2
Md93-5488	40.4	42.8	37.0	43.9	37.2	41.1

PRELIMINARY TEST IVA, 1996

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY	Mt. Orab OH
KS4694 (L)	20.9	20.3	20.6	20.5	22.5	20.8
Macon (III)	21.9	21.3	21.3	21.8	24.1	20.9
Stressland (IV)	21.7	20.5	21.2	20.9	23.9	22.1
HC90-2517	22.3	21.3	21.7	22.2	24.3	21.9
HC90-3305	22.2	21.1	21.6	21.3	24.7	22.4
HC91-3583	21.9	20.9	21.0	20.9	24.7	22.0
HC91-3825	21.4	21.7	20.1	21.2	22.4	21.6
HC92-1616	22.2	20.7	21.3	22.7	24.4	21.7
HC92-1626	22.2	22.3	21.7	22.3	22.9	21.8
HC92-1701	22.3	22.7	21.7	22.3	22.8	22.1
HC92-1710	22.1	21.8	21.3	21.8	24.0	21.4
HC92-1856	21.9	21.1	20.9	21.7	24.0	21.9
HC92-1857	22.2	21.9	21.3	20.6	23.6	23.6
HC92-1873	22.0	23.1	20.5	21.0	23.7	21.9
HC92-1908	22.6	23.6	21.0	21.9	22.6	24.0
LG91-7350	22.1	22.0	21.0	21.8	23.6	22.0
LN89-3502TP	22.0	21.1	21.5	20.5	24.6	22.3
LN92-9082	21.3	20.4	20.9	21.0	23.9	20.4
LN93-1859	21.5	20.5	20.8	21.3	23.3	21.6
LN93-8238	22.3	21.4	22.1	22.2	23.2	22.8
LN93-8428	22.2	21.7	21.6	22.2	23.7	21.8
LN93-11688	21.3	20.3	20.7	21.3	23.3	21.1
K1352	20.6	20.2	20.3	20.3	21.5	20.7
K1353	20.4	19.7	19.6	19.8	22.4	20.7
K1354	21.5	21.2	19.8	20.8	24.5	21.2
K1355	21.4	20.5	20.3	21.8	23.4	20.9
K1356	21.1	20.6	21.5	20.9	21.5	21.2
K1357	21.9	21.2	21.1	21.8	23.6	21.8
K1358	21.9	20.9	21.3	21.5	23.5	22.2
K1359	22.1	21.2	21.0	21.4	24.8	21.9
Ky93-0729	20.8	20.2	20.1	21.0	21.7	20.9
Md93-5010	20.8	19.3	20.1	20.2	23.9	20.4
Md93-5488	21.4	20.0	21.3	20.4	23.2	22.2

PRELIMINARY TEST IVB, 1996

	Strain	Parentage	Generation Composited	Unigue Traits
1.	KS4694 (L)	Sherman x Toano	F5	
2.	Macon (III)	Sherman x Resnik	F5	
3.	Stressland (IV)	HC80-1946 x Asgrow A3127	F5	
4.	LS93-0232	Asgrow A3935 x Pioneer P9402	F6	SCN
5.	LS93-0292	Asgrow A3935 x Pioneer P9402	F6	SCN
6.	LS93-0375	Asgrow A3935 x Pioneer P9402	F6	SCN
7.	LS93-0575	Asgrow A3935 x Pioneer P9402	F6	SCN
8.	LS93-1717	Pyramid x Asgrow A4595	F6	SCN
9.	LS93-2231	Pharoah x BPR317	F6	SCN
10.	SS87-2673	K1126 x CX415	F5	
11.	SS91-6611	Pioneer P9391 x Asgrow A3935	F5	
12.	SS91-7326	Pioneer P9442 x Asgrow A3935	F5	
13.	SS92-9082	C1747 x K1148	F5	
14.	SS92-9933	Burlison x A86-204022	F5	
15.	SS93-4856	Asgrow A3935 x A90-311023	F5	
16.	SS1386-5-2	Toyosuzu x Resnik	F5	Lrg. Seed
17.	V92-0847	Asgrow A4595 x Avery	F5	
18.	Ripley (dt1)	Hodgson x V68-1034	F5	
19.	HC87-5891	HC78-279 x HC78-676	F5	dt1
20.	HC89-82PR	HC78-350 x Gnome 85	F5	dt1
21.	HC91-621	HC83-4532 x Ripley	F5	dt1
22.	HC91-1662	Hutcheson x Pixie BC	F5	dt1
23.	HC91-2062	Hutcheson x Pixie BC	F5	dt1
24.	HC92-79PR	HC78-350(6) x PI 86.050	BC5 F3	dt1 Rps4
25.	HC92-84PR	HC78-350(6) x PI 86.050	BC5 F3	dt1 Rps4
26.	HC92-151	Sprite 87 x HC76-3840BC	F5	dt1
27.	HC92-218	Sprite 87 x HC78-352BC	F5	dt1
28.	HC92-437	Sprite 87 x HC78-352BC	F5	dt1
29.	HC92-465	Sprite 87 x HC84-913	F5	dt1
30.	HC92-605	Elgin x HC78-676BC	F5	dt1
31.	HC92-1013	HC83-4532 x HC78-350BC	F5	dt1
32.	HC92-1096	Hutcheson x Elf BC	F5	dt1

PRELIMINARY TEST IVB, 1996

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette Race 7	PS	PSB Lafayette	SMV
				a %	n %	a Score
KS4694 (L)	WGTDYBfI	1	S	0	36	4
Macon (III)	WTBDYBlI	1	R	0	78	10
Stressland (IV)	PTTDYBlI	1	S	0	16	0
LS93-0232	PTBDYBlI	1	S	0	26	0
LS93-0292	PTTIYBlI	1	R	0	54	0
LS93-0375	PTBDYBlI	1	H	0	40	4
LS93-0575	WTBSYBlI	1	R	0	32	0
LS93-1717	PTTSYBlI	1	R	0	30	0
LS93-2231	PTTDYBrD	1	S	0	0	2
SS87-2673	WTTSYBlI	1	S	0	40	0
SS91-6611	P+WTBDYBlI	1	S	10	54	0
SS91-7326	WTTDYBlI	1	S	0	46	2
SS92-9082	WTB+TDYBlI	1	R	0	52	2
SS92-9933	WGBDYBfI	1	H	0	74	0
SS93-4856	PTTDYBlI	1	S	0	4	0
SS1386-5-2	PTTDYYI	2	R	0	18	2
V92-0847	WTTDYBlI	1	R	0	46	0
Ripley (dt1)	PGTSYBfD	1	S	0	2	0
HC87-5891	PTTSYBlD	1	R	0	6	0
HC89-82PR	PTTDYBlD	1	R	0	4	0
HC91-621	PTTSYBrD	1	S	0	4	0
HC91-1662	PTTDYHD	1	S	0	16	0
HC91-2062	WTTDYHD	1	S	0	10	0
HC92-79PR	PTTDYBlD	1	S	0	4	0
HC92-84PR	PTTDYBlD	1	S	0	12	0
HC92-151	P+WTTSYBlD	1	S	0	28	0
HC92-218	P+WTTDYBlD	1	R	0	4	2
HC92-437	P+WTTDYBlD	1	R	0	18	0
HC92-465	PTTSYHD	1	R	0	2	2
HC92-605	PTBSYHD	1	R	0	16	0
HC92-1013	PTTIYBlD	1	R	0	6	0
HC92-1096	WTTIYBrD	1	R	0	28	2

PRELIMINARY TEST IVB, 1996

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
KS4694 (L)	52.4	7	5.6	1.8	34	1.5	17.1	39.7	21.0
Macon (III)	49.9	17	-5.9	1.2	29	1.6	17.8	39.1	21.6
Stressland (IV)	54.7	1	10/04	1.6	36	1.7	14.7	41.1	21.5
LS93-0232	53.9	2	0.3	1.2	33	1.7	17.1	39.4	21.9
LS93-0292	51.2	13	-0.1	1.5	36	1.4	15.8	39.5	21.7
LS93-0375	52.8	4	-1.4	1.1	31	1.5	17.1	40.1	21.3
LS93-0575	50.2	15	0.9	1.1	33	1.4	16.4	40.8	21.0
LS93-1717	49.4	20	4.1	2.1	39	1.9	17.2	40.2	20.2
LS93-2231	48.2	23	5.3	1.7	30	1.7	13.0	37.3	21.6
SS87-2673	51.6	9	1.0	1.9	38	1.6	14.6	38.5	21.9
SS91-6611	52.7	5	-2.0	1.4	35	1.5	17.4	40.7	21.6
SS91-7326	50.7	14	0.8	1.2	30	1.5	15.0	39.6	21.8
SS92-9082	52.7	5	1.2	1.3	32	1.4	15.6	40.1	21.5
SS92-9933	53.9	2	4.1	1.3	33	1.8	18.3	38.3	21.2
SS93-4856	51.5	11	-2.2	1.2	34	1.4	14.4	38.9	22.0
SS1386-5-2	46.7	27	0.3	1.7	37	1.3	16.0	40.1	21.0
V92-0847	52.4	7	-0.1	1.3	33	1.4	16.0	39.9	21.5
Ripley (dt1)	48.2	23	1.3	1.1	22	1.3	13.3	38.2	21.6
HC87-5891	51.6	9	-2.0	1.2	23	1.6	18.0	40.5	22.3
HC89-82PR	49.5	19	-2.7	1.0	19	1.4	17.7	41.3	22.0
HC91-621	46.7	30	-2.0	1.0	20	1.5	14.8	38.9	21.8
HC91-1662	51.5	11	-1.6	1.2	22	1.6	13.7	39.7	21.4
HC91-2062	44.7	32	-5.0	1.1	17	1.5	14.6	40.1	21.3
HC92-79PR	45.9	28	-3.0	1.0	17	1.6	16.6	40.5	22.3
HC92-84PR	45.1	31	-2.6	1.0	18	1.5	17.1	40.5	22.4
HC92-151	47.1	26	-1.7	1.1	20	1.5	17.3	40.9	21.5
HC92-218	47.9	25	-5.0	1.1	20	1.3	16.6	40.7	22.5
HC92-437	45.2	29	-6.1	1.1	20	1.6	18.0	41.2	22.8
HC92-465	50.2	15	-2.3	1.5	22	1.6	16.7	39.0	22.3
HC92-605	49.0	22	-1.0	1.1	18	1.6	14.1	39.3	20.7
HC92-1013	49.3	21	-1.9	1.1	20	1.6	17.5	40.0	22.0
HC92-1096	49.8	18	-1.6	1.1	23	1.4	16.0	40.1	22.1

126.0 Days After Planting

PRELIMINARY TEST IVB, 1996

YIELD (bu/a)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	52.4	59.6	34.6	36.2	66.8	63.1
Macon (III)	49.9	53.3	35.8	33.5	63.7	54.6
Stressland (IV)	54.7	64.0	43.2	43.6	65.6	61.8
LS93-0232	53.9	59.2	57.9	41.8	64.3	54.7
LS93-0292	51.2	53.7	58.3	35.8	57.9	58.8
LS93-0375	52.8	58.3	60.8	33.6	63.4	58.5
LS93-0575	50.2	50.8	61.9	32.3	57.5	60.8
LS93-1717	49.4	53.8	58.2	43.7	59.4	45.3
LS93-2231	48.2	61.1	55.2	24.4	64.0	49.9
SS87-2673	51.6	57.4	42.5	44.0	66.2	53.1
SS91-6611	52.7	50.4	36.8	49.8	63.6	61.4
SS91-7326	50.7	50.0	38.5	36.7	66.8	64.6
SS92-9082	52.7	52.5	38.4	34.3	68.3	64.6
SS92-9933	53.9	48.3	33.6	41.5	71.6	65.6
SS93-4856	51.5	51.3	44.5	40.7	66.4	58.0
SS1386-5-2	46.7	47.0	31.9	40.9	60.5	44.0
V92-0847	52.4	55.0	34.4	30.8	73.4	69.0
Ripley (dt1)	48.2	45.4	29.8	36.7	60.1	64.1
HC87-5891	51.6	47.0	32.5	40.5	72.5	57.4
HC89-82PR	49.5	48.0	43.3	42.2	57.8	56.7
HC91-621	46.7	44.2	28.1	34.2	54.9	70.1
HC91-1662	51.5	51.7	36.4	45.4	64.0	62.9
HC91-2062	44.7	39.1	33.4	31.7	65.1	57.4
HC92-79PR	45.9	45.9	30.8	34.9	61.3	55.9
HC92-84PR	45.1	48.9	30.5	36.5	53.7	62.7
HC92-151	47.1	54.5	36.7	31.5	65.8	49.8
HC92-218	47.9	41.1	37.2	34.7	60.8	59.1
HC92-437	45.2	40.6	30.9	33.8	46.3	56.6
HC92-465	50.2	34.7	38.3	43.8	68.7	65.7
HC92-605	49.0	48.9	28.9	35.7	54.4	58.7
HC92-1013	49.3	43.6	36.0	38.2	62.3	53.5
HC92-1096	49.8	44.4	46.2	40.6	51.8	54.3
C.V. (%)		14.3	14.1	13.3	3.7	7.8
L.S.D. (5%)		14.6	11.7	10.2	3.9	7.8
Row Sp. (In.)		30	30	26	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IVB, 1996

YIELD (bu/a)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	53.5	44.5	50.9	62.4
Macon (III)	53.6	54.9	34.2	65.9
Stressland (IV)	56.2	46.8	45.0	66.2
LS93-0232	48.3	50.1	40.2	69.0
LS93-0292	42.7	51.8	33.4	68.7
LS93-0375	54.2	38.4	37.0	70.9
LS93-0575	43.6	50.9	30.6	63.4
LS93-1717	49.6	49.2	31.8	53.4
LS93-2231	47.1	37.0	42.1	52.6
SS87-2673	51.9	46.5	36.4	66.8
SS91-6611	51.8	50.3	38.8	71.4
SS91-7326	57.1	45.8	29.4	67.8
SS92-9082	56.2	44.8	39.8	75.0
SS92-9933	56.7	53.6	44.5	69.3
SS93-4856	45.6	48.7	41.2	66.7
SS1386-5-2	47.1	48.4	42.6	58.2
V92-0847	51.5	53.4	35.7	68.2
Ripley (dt1)	48.0	42.5	46.1	60.8
HC87-5891	55.3	49.0	43.2	67.0
HC89-82PR	41.6	50.6	40.6	64.9
HC91-621	42.3	48.9	34.2	63.8
HC91-1662	45.8	46.7	40.2	70.6
HC91-2062	32.7	37.1	33.7	72.2
HC92-79PR	38.0	46.2	33.9	66.5
HC92-84PR	39.6	44.4	28.2	61.3
HC92-151	48.2	43.4	26.9	67.1
HC92-218	48.3	51.9	30.1	68.0
HC92-437	44.4	48.6	36.3	68.9
HC92-465	51.0	49.9	35.8	63.7
HC92-605	57.5	49.2	43.0	64.3
HC92-1013	47.4	55.7	38.0	69.3
HC92-1096	46.0	57.5	39.3	67.9
C.V. (%)	7.3	10.2	15.9	5.9
L.S.D. (5%)	7.2	10.0	12.0	7.9
Row Sp. (In.)	30	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVB, 1996

YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	7	3	21	18	6	8
Macon (III)	17	11	20	27	16	25
Stressland (IV)	1	1	10	6	11	11
LS93-0232	2	4	5	8	13	24
LS93-0292	13	10	3	19	25	15
LS93-0375	4	5	2	26	18	17
LS93-0575	15	15	1	28	27	13
LS93-1717	20	9	4	5	24	31
LS93-2231	23	2	6	32	14	29
SS87-2673	9	6	11	3	9	28
SS91-6611	5	16	16	1	17	12
SS91-7326	14	17	12	15	6	5
SS92-9082	5	12	13	23	5	5
SS92-9933	2	20	23	9	3	4
SS93-4856	11	14	8	11	8	18
SS1386-5-2	27	22	26	10	22	32
V92-0847	7	7	22	31	1	2
Ripley (dt1)	23	25	30	15	23	7
HC87-5891	9	22	25	13	2	19
HC89-82PR	19	21	9	7	26	21
HC91-621	30	27	32	24	28	1
HC91-1662	11	13	18	2	15	9
HC91-2062	32	31	24	29	12	19
HC92-79PR	28	24	28	21	20	23
HC92-84PR	31	18	29	17	30	10
HC92-151	26	8	17	30	10	30
HC92-218	25	29	15	22	21	14
HC92-437	29	30	27	25	32	22
HC92-465	15	32	14	4	4	3
HC92-605	22	18	31	20	29	16
HC92-1013	21	28	19	14	19	27
HC92-1096	18	26	7	12	31	26

PRELIMINARY TEST IVB, 1996

YIELD RANK

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	9	26	1	27
Macon (III)	8	3	22	21
Stressland (IV)	4	20	3	20
LS93-0232	15	11	11	8
LS93-0292	27	7	26	10
LS93-0375	7	30	17	4
LS93-0575	26	8	28	26
LS93-1717	14	13	27	31
LS93-2231	20	32	8	32
SS87-2673	10	22	18	17
SS91-6611	11	10	15	3
SS91-7326	2	24	30	14
SS92-9082	4	25	13	1
SS92-9933	3	4	4	6
SS93-4856	24	17	9	18
SS1386-5-2	20	19	7	30
V92-0847	12	5	21	11
Ripley (dt1)	18	29	2	29
HC87-5891	6	15	5	16
HC89-82PR	29	9	10	22
HC91-621	28	16	22	24
HC91-1662	23	21	11	5
HC91-2062	32	31	25	2
HC92-79PR	31	23	24	19
HC92-84PR	30	27	31	28
HC92-151	17	28	32	15
HC92-218	15	6	29	12
HC92-437	25	18	19	9
HC92-465	13	12	20	25
HC92-605	1	13	6	23
HC92-1013	19	2	16	6
HC92-1096	22	1	14	13

PRELIMINARY TEST IVB, 1996

MATURITY (date)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	5.6	5	7	1	6	7
Macon (III)	-5.9	-4	-3	-2	-8	-9
Stressland (IV)	10/04	10/02	09/29	10/16	10/03	09/27
LS93-0232	0.3	3	6	1	-3	-1
LS93-0292	-0.1	2	6	-1	-2	-1
LS93-0375	-1.4	1	3	-1	-3	-3
LS93-0575	0.9	2	6	1	-1	1
LS93-1717	4.1	5	7	1	2	4
LS93-2231	5.3	7	6	5	3	7
SS87-2673	1.0	2	2	3	1	3
SS91-6611	-2.0	1	-1	0	-4	-2
SS91-7326	0.8	2	1	1	1	3
SS92-9082	1.2	1	4	3	-1	4
SS92-9933	4.1	3	5	6	1	5
SS93-4856	-2.2	-3	-2	0	-2	-2
SS1386-5-2	0.3	1	4	0	-1	0
V92-0847	-0.1	2	1	0	1	1
Ripley (dt1)	1.3	4	0	4	6	5
HC87-5891	-2.0	3	-2	-1	-1	-2
HC89-82PR	-2.7	1	-2	-1	-3	-3
HC91-621	-2.0	-1	-2	0	-1	3
HC91-1662	-1.6	2	-1	-1	-1	2
HC91-2062	-5.0	-6	-4	0	-5	-2
HC92-79PR	-3.0	-2	-3	-1	-2	-2
HC92-84PR	-2.6	1	-2	-1	-2	-2
HC92-151	-1.7	3	-1	0	-1	-3
HC92-218	-5.0	-5	-4	-1	-2	-2
HC92-437	-6.1	-7	-6	-2	-2	-3
HC92-465	-2.3	-7	-1	-1	-2	3
HC92-605	-1.0	-1	0	0	-1	0
HC92-1013	-1.9	1	-1	-1	-1	1
HC92-1096	-1.6	-3	-1	-1	0	2
Date Planted	05/31	05/29	05/22	06/27	05/21	05/22
Days to Mature	126.0	126	130	111	135	128

PRELIMINARY TEST IVB, 1996

MATURITY (date)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	6	7	5	6
Macon (III)	-4	-5	-8	-10
Stressland (IV)	10/05	09/24	10/11	10/09
LS93-0232	-2	1	0	-2
LS93-0292	-4	0	1	-2
LS93-0375	-2	0	-3	-5
LS93-0575	0	1	0	-2
LS93-1717	2	6	4	6
LS93-2231	-1	6	9	6
SS87-2673	-1	0	1	-2
SS91-6611	-2	-3	-3	-4
SS91-7326	0	1	0	-2
SS92-9082	-2	0	5	-3
SS92-9933	5	7	6	-1
SS93-4856	-3	-1	-4	-3
SS1386-5-2	-2	-1	2	0
V92-0847	-4	0	-1	-1
Ripley (dt1)	-4	-5	5	-3
HC87-5891	-2	-4	-4	-5
HC89-82PR	-2	-4	-4	-6
HC91-621	-2	-5	-5	-5
HC91-1662	-3	-4	-4	-4
HC91-2062	-8	-7	-7	-6
HC92-79PR	-3	-3	-5	-6
HC92-84PR	-3	-3	-5	-6
HC92-151	-2	-3	-3	-5
HC92-218	-6	-6	-10	-9
HC92-437	-9	-7	-9	-10
HC92-465	-2	-4	-2	-5
HC92-605	-1	-1	-1	-4
HC92-1013	-2	-5	-4	-5
HC92-1096	-2	-3	-2	-4
Date Planted	06/07	05/20	06/18	05/20
Days to Mature	120	127	115	142

PRELIMINARY TEST IVB, 1996

LODGING (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	1.8	1.0	1.1	1.0	2.0	3.5
Macon (III)	1.2	1.0	1.0	1.0	1.0	1.0
Stressland (IV)	1.6	1.0	1.0	1.0	1.5	2.8
LS93-0232	1.2	1.0	1.0	1.0	1.0	1.3
LS93-0292	1.5	1.0	1.0	1.0	1.5	1.8
LS93-0375	1.1	1.0	1.0	1.0	1.0	1.0
LS93-0575	1.1	1.0	1.0	1.0	1.0	1.3
LS93-1717	2.1	1.0	1.0	1.0	2.5	3.8
LS93-2231	1.7	1.0	1.0	1.0	2.0	3.0
SS87-2673	1.9	1.0	1.0	1.0	2.3	2.0
SS91-6611	1.4	1.0	1.0	1.0	1.0	2.0
SS91-7326	1.2	1.0	1.0	1.0	1.5	1.3
SS92-9082	1.3	1.0	1.0	1.0	1.5	1.8
SS92-9933	1.3	1.0	1.0	1.0	2.0	1.5
SS93-4856	1.2	1.0	1.0	1.0	1.0	1.3
SS1386-5-2	1.7	1.0	1.0	1.0	2.0	2.8
V92-0847	1.3	1.0	1.0	1.0	2.0	1.5
Ripley (dtl)	1.1	1.0	1.0	1.0	1.0	1.5
HC87-5891	1.2	1.0	1.0	1.0	1.0	1.5
HC89-82PR	1.0	1.0	1.0	1.0	1.0	1.3
HC91-621	1.0	1.0	1.0	1.0	1.0	1.0
HC91-1662	1.2	1.0	1.0	1.0	1.0	2.0
HC91-2062	1.1	1.0	1.0	1.0	1.0	1.8
HC92-79PR	1.0	1.0	1.0	1.0	1.0	1.0
HC92-84PR	1.0	1.0	1.0	1.0	1.0	1.0
HC92-151	1.1	1.0	1.0	1.0	1.0	1.0
HC92-218	1.1	1.0	1.0	1.0	1.0	1.0
HC92-437	1.1	1.0	1.0	1.0	1.0	1.0
HC92-465	1.5	1.0	1.0	1.0	1.5	3.8
HC92-605	1.1	1.0	1.0	1.0	1.0	1.3
HC92-1013	1.1	1.0	1.0	1.0	1.0	1.5
HC92-1096	1.1	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IVB, 1996

LODGING (score)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	2.8	1.5	1.0	2.0
Macon (III)	2.8	1.0	1.0	1.3
Stressland (IV)	2.3	1.5	1.1	1.8
LS93-0232	1.8	1.5	1.0	1.0
LS93-0292	2.0	1.5	1.0	2.3
LS93-0375	1.8	1.0	1.0	1.0
LS93-0575	1.8	1.0	1.0	1.0
LS93-1717	3.0	3.5	1.0	2.3
LS93-2231	2.3	1.0	1.0	3.3
SS87-2673	2.5	3.5	1.0	2.8
SS91-6611	2.5	2.0	1.0	1.3
SS91-7326	2.3	1.0	1.0	1.0
SS92-9082	2.0	1.0	1.0	1.5
SS92-9933	2.0	1.0	1.0	1.5
SS93-4856	2.0	1.0	1.0	1.3
SS1386-5-2	2.5	2.0	1.0	2.3
V92-0847	1.8	1.0	1.0	1.3
Ripley (dt1)	1.0	1.0	1.0	1.0
HC87-5891	1.5	1.0	1.0	1.5
HC89-82PR	1.0	1.0	1.0	1.0
HC91-621	1.3	1.0	1.0	1.0
HC91-1662	1.3	1.0	1.0	1.3
HC91-2062	1.0	1.0	1.0	1.3
HC92-79PR	1.0	1.0	1.0	1.0
HC92-84PR	1.0	1.0	1.0	1.0
HC92-151	2.0	1.0	1.0	1.0
HC92-218	1.8	1.0	1.0	1.0
HC92-437	1.5	1.0	1.0	1.0
HC92-465	1.0	1.0	1.0	2.0
HC92-605	1.3	1.0	1.0	1.0
HC92-1013	1.8	1.0	1.0	1.0
HC92-1096	1.8	1.0	1.0	1.5

PRELIMINARY TEST IVB, 1996

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	34	32	29	20	45	42
Macon (III)	29	26	29	21	39	34
Stressland (IV)	36	37	33	23	45	45
LS93-0232	33	32	35	25	41	39
LS93-0292	36	33	37	27	45	46
LS93-0375	31	32	34	23	41	39
LS93-0575	33	30	38	22	42	44
LS93-1717	39	36	43	29	47	50
LS93-2231	30	29	36	22	34	41
SS87-2673	38	38	39	28	48	46
SS91-6611	35	32	31	29	44	45
SS91-7326	30	27	28	21	44	37
SS92-9082	32	31	30	24	41	39
SS92-9933	33	30	28	24	44	42
SS93-4856	34	32	33	25	42	43
SS1386-5-2	37	35	33	29	50	50
V92-0847	33	31	32	21	43	41
Ripley (dt1)	22	20	21	19	24	31
HC87-5891	23	22	24	17	29	31
HC89-82PR	19	16	22	15	20	26
HC91-621	20	20	21	17	24	25
HC91-1662	22	21	26	19	26	29
HC91-2062	17	16	22	14	21	23
HC92-79PR	17	16	20	16	19	23
HC92-84PR	18	17	19	16	19	23
HC92-151	20	20	27	15	24	25
HC92-218	20	19	23	16	22	28
HC92-437	20	20	21	15	23	23
HC92-465	22	18	26	19	25	28
HC92-605	18	18	19	13	20	24
HC92-1013	20	17	23	16	26	22
HC92-1096	23	20	27	18	27	31

PRELIMINARY TEST IVB, 1996

PLANT HEIGHT (inches)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	39	34	25	41
Macon (III)	31	27	19	33
Stressland (IV)	35	36	28	42
LS93-0232	30	31	25	36
LS93-0292	36	35	24	38
LS93-0375	30	28	21	34
LS93-0575	34	32	21	35
LS93-1717	39	41	23	42
LS93-2231	29	24	22	32
SS87-2673	35	41	26	39
SS91-6611	34	35	26	39
SS91-7326	31	31	21	34
SS92-9082	31	30	23	35
SS92-9933	31	33	26	38
SS93-4856	33	29	26	40
SS1386-5-2	36	36	25	40
V92-0847	31	32	23	41
Ripley (dt1)	18	16	20	26
HC87-5891	21	17	18	27
HC89-82PR	15	16	16	21
HC91-621	17	16	19	25
HC91-1662	17	18	21	23
HC91-2062	12	14	15	20
HC92-79PR	14	13	15	20
HC92-84PR	14	15	14	23
HC92-151	19	13	15	24
HC92-218	16	17	18	24
HC92-437	17	17	17	23
HC92-465	20	16	17	26
HC92-605	15	14	15	22
HC92-1013	18	17	16	24
HC92-1096	18	17	22	28

PRELIMINARY TEST IVB, 1996

SEED QUALITY (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	1.5	1.0	1.2	1.0	3.0	1.0
Macon (III)	1.6	3.0	1.2	1.0	2.0	2.0
Stressland (IV)	1.7	3.0	1.4	1.0	2.0	1.0
LS93-0232	1.7	1.0	1.7	1.0	2.0	2.0
LS93-0292	1.4	2.0	1.4	1.0	2.0	1.0
LS93-0375	1.5	1.0	1.4	1.0	2.0	2.0
LS93-0575	1.4	1.0	1.2	1.0	2.0	1.0
LS93-1717	1.9	1.0	1.9	1.0	2.0	1.0
LS93-2231	1.7	1.0	1.7	1.0	1.0	1.0
SS87-2673	1.6	1.0	1.5	1.0	2.0	1.0
SS91-6611	1.5	1.0	1.7	1.0	2.0	1.0
SS91-7326	1.5	1.0	1.8	1.0	2.0	2.0
SS92-9082	1.4	1.0	1.2	1.0	2.0	1.0
SS92-9933	1.8	2.0	1.8	1.0	3.0	2.0
SS93-4856	1.4	2.0	1.4	1.0	2.0	1.0
SS1386-5-2	1.3	1.0	1.5	1.0	2.0	1.0
V92-0847	1.4	1.0	1.2	1.0	2.0	1.0
Ripley (dt1)	1.3	1.0	1.5	1.0	2.0	2.0
HC87-5891	1.6	1.0	1.7	1.0	2.0	2.0
HC89-82PR	1.4	2.0	1.7	1.0	2.0	1.0
HC91-621	1.5	1.0	1.7	1.0	2.0	1.0
HC91-1662	1.6	1.0	1.5	1.0	2.0	1.0
HC91-2062	1.5	1.0	1.5	1.0	2.0	1.0
HC92-79PR	1.6	3.0	1.5	1.0	2.0	1.0
HC92-84PR	1.5	2.0	1.8	1.0	1.0	2.0
HC92-151	1.5	1.0	1.7	1.0	2.0	2.0
HC92-218	1.3	2.0	1.4	1.0	2.0	1.0
HC92-437	1.6	2.0	1.7	1.0	2.0	2.0
HC92-465	1.6	2.0	1.7	1.0	2.0	1.0
HC92-605	1.6	2.0	1.6	1.0	2.0	1.0
HC92-1013	1.6	2.0	1.4	1.0	2.0	1.0
HC92-1096	1.4	1.0	1.7	1.0	2.0	1.0

PRELIMINARY TEST IVB, 1996

SEED QUALITY (score)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	1.0	2.0	1.0	2.5
Macon (III)	1.5	1.0	1.0	2.0
Stressland (IV)	1.0	3.0	1.0	2.0
LS93-0232	1.3	3.0	1.0	2.0
LS93-0292	1.0	1.0	1.0	2.5
LS93-0375	1.0	2.0	1.0	2.0
LS93-0575	1.0	2.0	1.0	2.0
LS93-1717	1.3	5.0	1.0	3.0
LS93-2231	1.0	5.0	1.0	2.5
SS87-2673	1.3	3.0	1.0	3.0
SS91-6611	1.3	2.0	1.0	2.5
SS91-7326	1.0	2.0	1.0	2.0
SS92-9082	1.3	2.0	1.0	1.8
SS92-9933	1.0	2.0	1.0	2.0
SS93-4856	1.0	1.0	1.0	2.5
SS1386-5-2	1.5	1.0	1.0	2.0
V92-0847	1.3	2.0	1.0	2.0
Ripley (dt1)	1.0	1.0	1.0	1.2
HC87-5891	1.5	2.0	1.0	2.5
HC89-82PR	1.0	1.0	1.0	1.8
HC91-621	1.0	3.0	1.0	2.0
HC91-1662	1.0	3.0	1.0	2.5
HC91-2062	1.5	3.0	1.0	1.5
HC92-79PR	1.0	2.0	1.0	2.0
HC92-84PR	1.3	2.0	1.0	1.8
HC92-151	1.0	2.0	1.0	1.5
HC92-218	1.0	1.0	1.0	1.5
HC92-437	1.0	2.0	1.0	1.8
HC92-465	1.0	3.0	1.0	2.0
HC92-605	1.3	2.0	1.0	2.5
HC92-1013	1.0	3.0	1.0	1.8
HC92-1096	1.0	2.0	1.0	1.8

PRELIMINARY TEST IVB, 1996

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
KS4694 (L)	17.1	17.8	14.8	15.8	18.7	17.1
Macon (III)	17.8	21.0	16.8	17.2	19.0	17.1
Stressland (IV)	14.7	21.3	14.0	12.1	14.8	15.0
LS93-0232	17.1	19.4	18.6	18.3	18.1	14.1
LS93-0292	15.8	18.2	17.2	16.6	15.3	15.7
LS93-0375	17.1	19.2	18.8	16.9	18.0	16.3
LS93-0575	16.4	17.5	18.6	16.7	17.6	16.1
LS93-1717	17.2	18.8	18.0	16.7	17.0	15.4
LS93-2231	13.0	13.5	12.9	10.7	14.6	15.7
SS87-2673	14.6	15.4	14.2	14.0	15.7	13.7
SS91-6611	17.4	19.9	16.8	16.9	18.3	18.0
SS91-7326	15.0	17.1	14.0	15.5	16.4	14.7
SS92-9082	15.6	16.7	15.5	14.4	16.7	14.0
SS92-9933	18.3	19.6	16.1	16.8	21.0	17.9
SS93-4856	14.4	14.9	14.6	14.6	15.7	14.1
SS1386-5-2	16.0	17.6	13.9	15.4	18.2	15.2
V92-0847	16.0	17.1	13.8	15.2	18.3	16.4
Ripley (dt1)	13.3	15.0	11.3	13.4	13.9	12.7
HC87-5891	18.0	20.0	18.5	17.8	20.1	16.9
HC89-82PR	17.7	21.3	16.0	18.4	18.7	16.5
HC91-621	14.8	15.4	13.6	17.0	15.6	15.1
HC91-1662	13.7	15.3	12.1	15.3	14.1	13.1
HC91-2062	14.6	17.1	13.1	16.3	16.9	13.8
HC92-79PR	16.6	17.2	15.6	17.1	19.6	16.5
HC92-84PR	17.1	19.5	16.2	17.6	19.3	16.5
HC92-151	17.3	17.6	17.2	17.1	19.3	16.5
HC92-218	16.6	19.0	15.1	17.2	19.4	16.3
HC92-437	18.0	19.9	17.2	17.7	21.2	17.8
HC92-465	16.7	13.7	15.8	18.0	20.7	17.2
HC92-605	14.1	15.9	11.9	14.8	15.7	13.6
HC92-1013	17.5	20.7	16.7	17.1	19.9	16.6
HC92-1096	16.0	16.3	14.8	17.4	17.4	14.8

PRELIMINARY TEST IVB, 1996

SEED SIZE (g/100)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	17.5	----	17.6	17.2
Macon (III)	18.2	17.9	15.5	17.6
Stressland (IV)	14.4	12.7	13.8	14.2
LS93-0232	16.0	15.2	17.0	16.9
LS93-0292	13.9	13.8	17.0	14.8
LS93-0375	16.4	15.3	16.3	16.7
LS93-0575	14.0	15.5	15.4	16.4
LS93-1717	16.7	17.6	16.7	17.6
LS93-2231	12.7	11.1	12.9	12.7
SS87-2673	14.3	13.1	14.9	15.8
SS91-6611	17.3	14.8	17.1	17.5
SS91-7326	15.0	12.3	15.1	14.6
SS92-9082	15.6	14.4	16.6	16.2
SS92-9933	17.9	18.7	18.7	18.3
SS93-4856	13.7	13.5	13.3	15.3
SS1386-5-2	15.9	14.3	16.2	16.9
V92-0847	15.7	15.1	15.6	16.5
Ripley (dt1)	14.4	12.6	14.1	12.0
HC87-5891	18.3	15.6	16.8	17.9
HC89-82PR	16.5	18.1	16.4	17.1
HC91-621	14.4	13.5	14.4	14.5
HC91-1662	14.1	12.8	13.2	13.5
HC91-2062	13.4	13.9	12.5	14.5
HC92-79PR	15.6	15.8	15.3	16.5
HC92-84PR	16.3	16.0	15.8	16.7
HC92-151	17.6	17.1	15.9	17.2
HC92-218	16.6	16.9	13.9	15.3
HC92-437	17.3	17.3	16.1	17.7
HC92-465	16.9	15.4	16.1	16.1
HC92-605	14.4	12.5	14.1	13.8
HC92-1013	17.8	15.1	15.7	18.0
HC92-1096	17.8	14.7	15.7	15.4

PRELIMINARY TEST IVB, 1996

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY	Mt. Orab OH
KS4694 (L)	39.7	41.1	36.1	43.4	36.4	41.4
Macon (III)	39.1	39.8	38.5	41.5	35.4	40.3
Stressland (IV)	41.1	43.7	36.0	45.3	37.6	43.0
LS93-0232	39.4	42.1	37.0	41.8	36.3	40.0
LS93-0292	39.5	42.0	38.9	41.4	33.6	41.5
LS93-0375	40.1	42.7	39.3	40.8	36.4	41.3
LS93-0575	40.8	43.1	38.8	42.6	39.8	39.8
LS93-1717	40.2	42.1	38.2	42.2	37.3	41.1
LS93-2231	37.3	40.5	31.3	41.0	37.8	36.0
SS87-2673	38.5	40.2	36.7	40.5	35.6	39.4
SS91-6611	40.7	41.6	39.4	43.3	38.5	40.7
SS91-7326	39.6	40.5	38.3	42.1	36.1	40.9
SS92-9082	40.1	41.4	37.6	43.6	35.9	42.1
SS92-9933	38.3	39.2	35.1	41.5	35.8	39.7
SS93-4856	38.9	40.8	37.1	41.0	35.5	39.9
SS1386-5-2	40.1	40.5	38.4	44.4	35.7	41.7
V92-0847	39.9	41.1	39.1	41.8	36.7	40.7
Ripley (dtl)	38.2	38.3	36.8	40.0	35.4	40.5
HC87-5891	40.5	43.1	40.1	42.3	34.7	42.4
HC89-82PR	41.3	43.4	41.5	42.5	34.6	44.4
HC91-621	38.9	37.8	38.6	41.2	36.0	40.7
HC91-1662	39.7	38.6	39.2	41.3	37.7	41.9
HC91-2062	40.1	40.1	40.4	41.7	35.3	43.2
HC92-79PR	40.5	41.8	41.0	42.1	35.3	42.2
HC92-84PR	40.5	42.1	40.1	42.3	34.9	43.0
HC92-151	40.9	43.1	41.0	42.9	34.9	42.4
HC92-218	40.7	42.5	40.8	42.1	35.7	42.2
HC92-437	41.2	44.0	40.1	41.9	36.6	43.3
HC92-465	39.0	40.5	38.6	40.2	35.5	40.3
HC92-605	39.3	40.4	38.0	43.0	35.4	39.9
HC92-1013	40.0	42.3	40.2	42.5	33.9	41.1
HC92-1096	40.1	40.5	39.4	42.4	36.1	41.9

PRELIMINARY TEST IVB, 1996

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY	Mt. Orab OH
KS4694 (L)	21.0	20.5	21.1	20.2	22.1	21.1
Macon (III)	21.6	21.7	20.4	21.7	23.2	21.1
Stressland (IV)	21.5	20.3	21.9	21.0	22.5	21.7
LS93-0232	21.9	20.1	21.9	21.6	23.6	22.5
LS93-0292	21.7	20.7	21.3	20.7	24.0	21.7
LS93-0375	21.3	20.2	20.5	20.5	23.1	22.0
LS93-0575	21.0	20.4	20.2	21.2	21.8	21.6
LS93-1717	20.2	19.1	20.1	20.0	21.5	20.5
LS93-2231	21.6	20.1	22.4	21.4	21.7	22.5
SS87-2673	21.9	20.7	21.6	21.4	23.5	22.1
SS91-6611	21.6	21.3	21.0	21.3	22.9	21.4
SS91-7326	21.8	21.1	21.5	21.5	22.9	22.0
SS92-9082	21.5	20.8	21.7	20.7	23.2	21.0
SS92-9933	21.2	21.1	20.2	20.8	22.7	21.1
SS93-4856	22.0	21.4	22.2	21.4	23.5	21.5
SS1386-5-2	21.0	20.3	20.6	20.4	22.7	21.0
V92-0847	21.5	20.8	21.0	21.3	22.5	21.9
Ripley (dt1)	21.6	21.7	20.8	22.4	22.1	20.9
HC87-5891	22.3	21.5	20.9	21.9	25.0	22.1
HC89-82PR	22.0	21.0	20.5	22.4	25.1	21.1
HC91-621	21.8	21.3	20.9	21.9	22.6	22.2
HC91-1662	21.4	20.9	21.2	21.6	21.5	21.9
HC91-2062	21.3	20.3	20.1	21.7	23.2	21.0
HC92-79PR	22.3	21.4	20.9	22.5	24.5	22.0
HC92-84PR	22.4	21.0	21.1	22.8	25.1	22.0
HC92-151	21.5	20.2	20.3	21.5	24.7	20.8
HC92-218	22.5	22.0	20.4	23.0	24.4	22.9
HC92-437	22.8	22.1	21.5	23.2	24.7	22.6
HC92-465	22.3	21.8	21.2	22.6	23.8	21.9
HC92-605	20.7	20.3	20.6	19.7	22.1	20.9
HC92-1013	22.0	21.2	20.8	22.5	24.9	20.5
HC92-1096	22.1	22.2	20.7	21.8	23.7	21.9